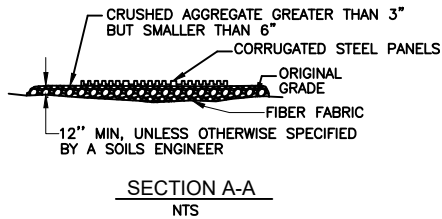
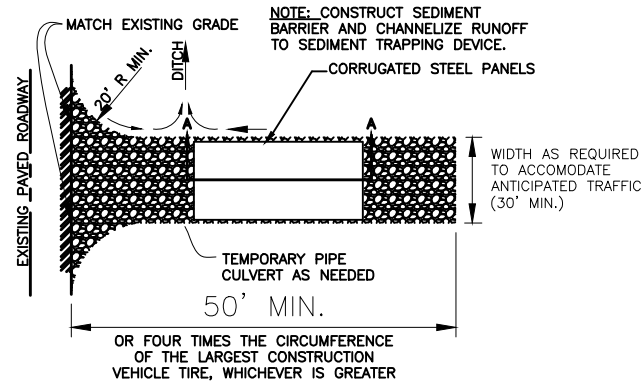
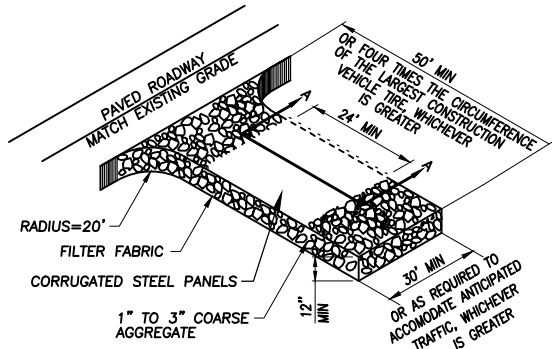
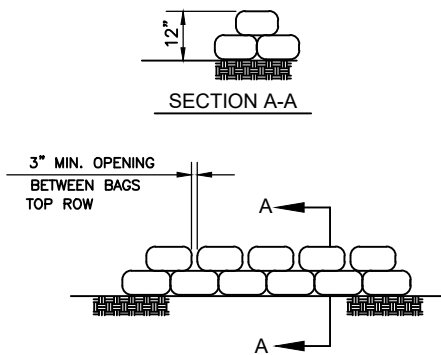


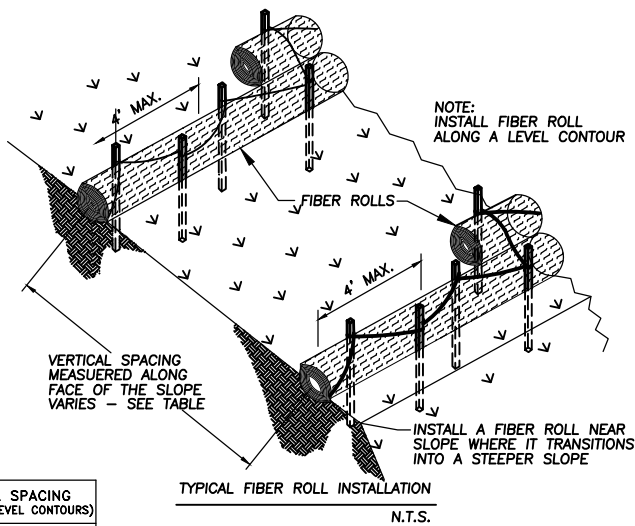
TYPICAL GRATE INLET PROTECTION
NOT TO SCALE



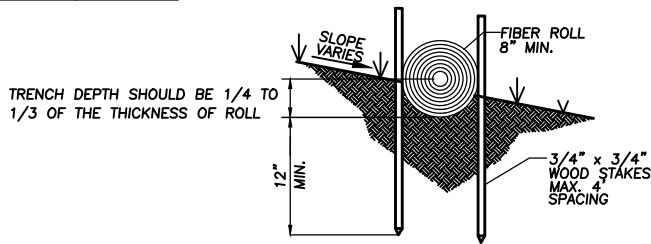
STABILIZED CONSTRUCTION
ENTRANCE/ EXIT DETAIL (TC-1)
NOT TO SCALE



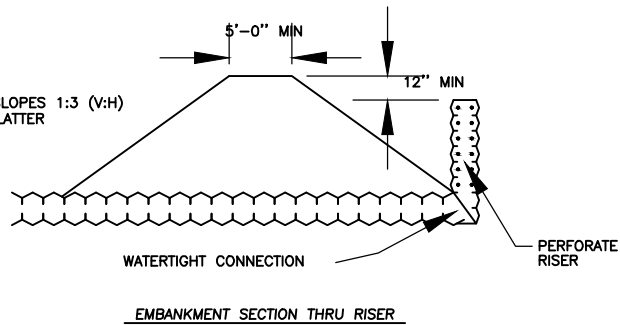
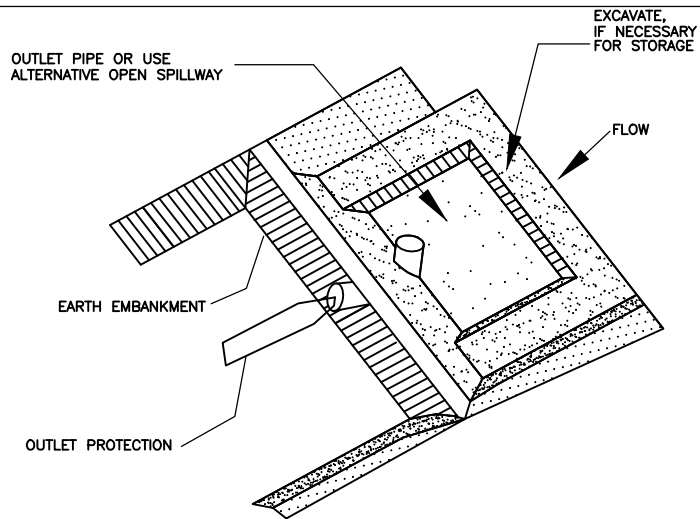
GRAVEL BAG BERM DETAILS (SE-6)
NOT TO SCALE



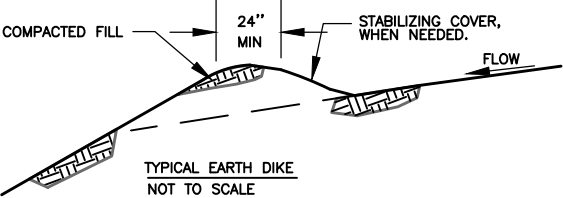
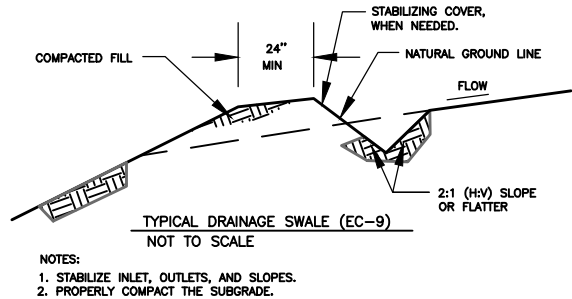
FIBER ROLL SPACING (INSTALL ALONG LEVEL CONTOURS)	
SLOPE	SPACING
0-25%	EVERY 20'
25-50%	EVERY 15'
50% OR >	EVERY 10'



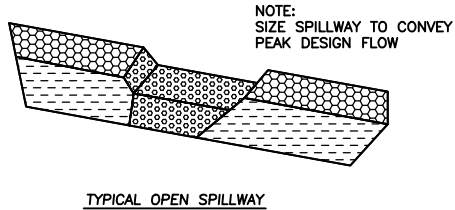
TYPICAL FIBER ROLL INSTALLATION
NOT TO SCALE



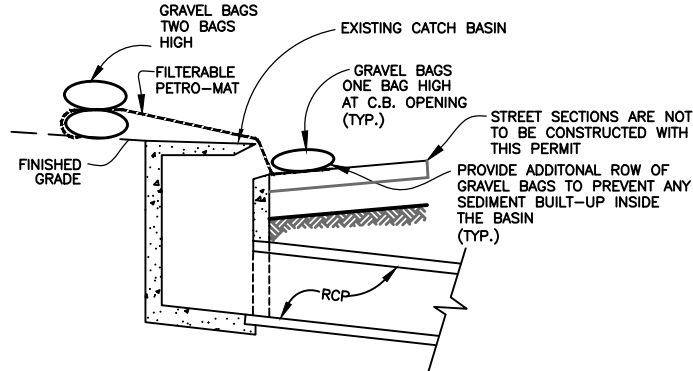
TYPICAL SEDIMENT TRAP (SE-3)
NOT TO SCALE



EARTH DIKES & DRAINAGE SWALES (EC-9)
NOT TO SCALE



- NOTES:
- TEMPORARY SEDIMENT TRAPS SHALL ONLY BE USED FOR SMALL DRAINAGE AREAS (<5 ACRES). IF CONTRIBUTING DRAINAGE AREA IS GREATER THAN 5 ACRES, SUBDIVIDE INTO SMALLER CATCHMENT AREAS OR USE SEDIMENT BASINS (SE-2).
 - TRAP SHOULD BE SITUATED ACCORDING TO THE FOLLOWING CRITERIA: (1) BY EXCAVATING A SUITABLE AREA OR WHERE A LOW EMBANKMENT CAN BE CONSTRUCTED ACROSS A SWALE, (2) WHERE FAILURE WOULD NOT CAUSE LOSS OF LIFE OR PROPERTY DAMAGE, AND (3) TO PROVIDE ACCESS FOR MAINTENANCE, INCLUDING SEDIMENT REMOVAL AND SEDIMENT STOCKPILING IN A PROTECTED AREA.
 - AT A MINIMUM, SEDIMENT TRAP SHOULD BE SIZED TO ACCOMMODATE A SETTLING ZONE VOLUME OF 67 CUBIC YARDS PER ACRE OF CONTRIBUTING DRAINAGE AREA, AND A SEDIMENT STORAGE ZONE VOLUME OF 33 CUBIC YARDS PER ACRE OF CONTRIBUTING DRAINAGE AREA.
 - OUTLET PIPE OR OPEN SPILLWAY MUST BE DESIGNED TO CONVEY ANTICIPATED PEAK FLOWS, AND BE STABILIZED WITH VEGETATION OR ROCK TO PROTECT OUTLET AGAINST EROSION.
 - WHEN A RISER IS USED, AT LEAST THE TOP TWO-THIRDS OF THE RISER SHOULD BE PERFORATED WITH 0.5 IN DIAMETER HOLES SPACED 8 IN VERTICALLY AND 10-12 IN HORIZONTALLY. WHERE AN EARTH OR STONE OUTLET IS USED, THE OUTLET CREST ELEVATION SHOULD BE AT LEAST 1 FT BELOW THE TOP OF EMBANKMENT. WHERE CRUSHED STONE IS USED, STONE SHOULD MEET AASHTO M43 SIZE NO. 2 OR 24, OR EQUIVALENT MSHA NO. 2.
 - FENCING SHOULD BE PROVIDED TO PREVENT UNAUTHORIZED ENTRY.
 - SEDIMENT THAT ACCUMULATES IN TRAP SHOULD BE REMOVED AFTER EACH RAIN EVENT, AND WHEN ACCUMULATION REACHES ONE-THIRD OF TRAP CAPACITY. SEDIMENT REMOVED DURING MAINTENANCE MAY BE INCORPORATED INTO EARTHWORK ON-SITE OR PROPERLY DISPOSED OFF-SITE.
 - CORRECTIVE MEASURES SHOULD BE TAKEN IF TRAP DOES NOT DEWATER COMPLETELY IN 96 HOURS OR LESS TO PREVENT VECTOR PRODUCTION. ANY DEWATERING SHALL BE IN ACCORDANCE WITH BMP NS-2.



TYPICAL CURB INLET PROTECTION
NOT TO SCALE

SWPPP EXHIBIT
BMP DETAILS
4th AND MORTIMER
SANTA ANA, CA

WET SEASON REQUIREMENTS (OCTOBER 1 THROUGH APRIL 30)		
WET SEASON REQUIREMENTS IN ADDITION TO THE DRY SEASON REQUIREMENTS:	SPECIFIED BMPs BMP Detail(s)/Sheet Number	
A. SEDIMENT CONTROL BMPs SHALL BE IMPLEMENTED AT THE SITE PERIMETER, AT ALL OPERATIONAL STORM DRAIN INLETS AND AT ALL NON-ACTIVE SLOPES, TO PROVIDE SUFFICIENT PROTECTION FOR STORMS LIKELY TO OCCUR DURING THE RAINY SEASON.	SE-5, SE-6, SE-7, SE-8, SE-9, SE-10	
B. ADEQUATE PHYSICAL OR VEGETATION EROSION CONTROL BMPs (TEMPORARY OR PERMANENT) SHALL BE INSTALLED AND ESTABLISHED FOR ALL COMPLETED SLOPES PRIOR TO THE START OF THE RAINY SEASON. THESE BMPs MUST BE MAINTAINED THROUGHOUT THE RAINY SEASON. IF A SELECTED BMP FAILS, IT MUST BE REPAIRED AND IMPROVED, OR REPLACED WITH AN ACCEPTABLE ALTERNATE AS SOON AS IT IS SAFE TO DO SO. THE FAILURE OF A BMP MAY INDICATE THAT THE BMP, AS INSTALLED, WAS NOT ADEQUATE FOR THE CIRCUMSTANCES IN WHICH IT WAS USED. REPAIRS OR REPLACEMENTS MUST RESULT IN A MORE ROBUST BMP, OR ADDITIONAL BMPs SHOULD BE INSTALLED TO PROVIDE ADEQUATE PROTECTION.	EC-1, EC-5, EC-8	
C. THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY DEPLOYING THE REFERENCED STANDBY EROSION CONTROL AND SEDIMENT CONTROL BMPs PRIOR TO A PREDICTED RAINSTORM.	EC-5, SE-6, SE-7, SE-10	
D. A DISTURBED AREA THAT IS NOT COMPLETED BUT THAT IS NOT BEING ACTIVELY GRADED (NON-ACTIVE AREA) SHALL BE FULLY PROTECTED FROM EROSION WITH THE REFERENCED TEMPORARY AND/OR PERMANENT BMPs (EROSION AND SEDIMENT CONTROL). THE ABILITY TO DEPLOY STANDBY BMP MATERIALS IS NOT SUFFICIENT FOR THESE AREAS. EROSION AND SEDIMENT CONTROL BMPs MUST ACTUALLY BE DEPLOYED. THIS INCLUDES ALL BUILDING PADS, UNFINISHED ROADS AND SLOPES.	EC-5, SE-6, SE-10	
E. SUFFICIENT MATERIALS NEEDED TO INSTALL REFERENCED STANDBY EROSION AND SEDIMENT CONTROL BMPs NECESSARY TO COMPLETELY PROTECT THE EXPOSED PORTIONS OF THE SITE FROM EROSION AND TO PREVENT SEDIMENT DISCHARGES SHALL BE STORED ON SITE. AREAS THAT HAVE ALREADY BEEN PROTECTED FROM EROSION USING PERMANENT PHYSICAL STABILIZATION OR ESTABLISHED VEGETATION STABILIZATION BMPs ARE NOT CONSIDERED "EXPOSED" FOR PURPOSES OF THIS REQUIREMENT.	SE-5, SE-6, SE-7, SE-8, EC-5	

NOTE: FOR RISK LEVEL 2 AND 3 SITES, THERE SHALL BE A "RAIN EVENT ACTION PLAN" AND THE ABILITY TO DEPLOY STANDBY EROSION AND SEDIMENT CONTROL BMPs AS NEEDED TO COMPLETELY PROTECT THE EXPOSED PORTIONS OF THE SITE WITHIN 48 HOURS OF A PREDICTED STORM EVENT (A PREDICTED STORM EVENT IS DEFINED AS A FORECASTED 50% CHANCE OF RAIN).

DRY SEASON REQUIREMENTS (MAY 1 THROUGH SEPTEMBER 30)		
DRY SEASON REQUIREMENTS	SPECIFIED BMPs BMP Detail(s)/Sheet Number	
A. WIND EROSION BMPs (DUST CONTROL) SHALL BE IMPLEMENTED.	WE-1	
B. SEDIMENT CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED AT ALL OPERATIONAL STORM DRAIN INLETS INTERNAL TO THE PROJECT.	SE-10	
C. BMPs TO CONTROL OFF-SITE SEDIMENT TRACKING SHALL BE IMPLEMENTED AND MAINTAINED.	TC-1, TC-2, TC-3	
D. APPROPRIATE WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs SHALL BE IMPLEMENTED TO PREVENT THE CONTAMINATION OF STORMWATER BY WASTES AND CONSTRUCTION MATERIALS.	WM-1, WM-2, WM-3, WM-4, WM-5, WM-6, WM-8, WM-9	
E. APPROPRIATE NON-STORMWATER BMPs SHALL BE IMPLEMENTED TO PREVENT THE CONTAMINATION OF STORMWATER FROM CONSTRUCTION ACTIVITIES.	NS-1, NS-3, NS-6, NS-8, NS-9, NS-10	
F. DEPLOYMENT OF PERMANENT EROSION CONTROL BMPs (PHYSICAL OR VEGETATION) SHALL COMMENCE AS SOON AS PRACTICAL ON SLOPES THAT ARE COMPLETED FOR ANY PORTION OF THE SITE. STANDBY BMP MATERIALS SHALL NOT BE RELIED UPON TO PREVENT EROSION OF SLOPES THAT HAVE BEEN COMPLETED.		

NOTE 1: THERE SHALL BE A "WEATHER TRIGGERED" ACTION PLAN AND THE ABILITY TO DEPLOY STANDBY SEDIMENT CONTROL BMPs AS NEEDED TO COMPLETELY PROTECT THE EXPOSED PORTIONS OF THE SITE WITHIN 48 HOURS OF A PREDICTED STORM EVENT (A PREDICTED STORM EVENT IS DEFINED AS A FORECASTED 50% CHANCE OF RAIN).

NOTE 2: SUFFICIENT MATERIALS NEEDED TO INSTALL STANDBY SEDIMENT CONTROL BMPs (AT THE SITE PERIMETER, SITE SLOPES AND OPERATIONAL INLETS WITHIN THE SITE) NECESSARY TO PREVENT SEDIMENT DISCHARGES FROM EXPOSED PORTIONS OF THE SITE SHALL BE STORED ON SITE. AREAS THAT HAVE ALREADY BEEN PROTECTED FROM EROSION USING PHYSICAL STABILIZATION OR ESTABLISHED VEGETATION STABILIZATION BMPs AS DESCRIBED IN ITEM F ABOVE ARE NOT CONSIDERED "EXPOSED" FOR PURPOSES OF THIS REQUIREMENT.

BMP TABLE:

SYMBOL	DESCRIPTION
ENTIRE SITE	WE-1 WIND EROSION CONTROLS
	TC-1 STABILIZED CONSTRUCTION ENTRANCE
	SE-1 SILT FENCE
	SE-6 GRAVEL BAG BARRIER
	SE-10 STORM DRAIN INLET PROTECTION

BMP DETAILS CAN BE OBTAINED IN THE SWPPP PREPARED FOR THIS PROJECT BY FUSCOE ENGINEERING OR
http://www.ocwatersheds.com/StormWater/documents_bmp_construction.asp



DIAL TOLL FREE

811

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT (USA)
OF SOUTHERN CALIFORNIA

REVISIONS					REFERENCES				
NUMBER	DATE	INITIALS	DESCRIPTION	APPROVED					

POLLUTION PREVENTION NOTES

IN ORDER TO MEET THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM FOR CONSTRUCTION, CONSTRUCTION CONTRACTORS SHALL INSTALL AND MAINTAIN APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs), AS SHOWN IN THE EROSION AND SEDIMENT CONTROL PLAN, ON ALL CONSTRUCTION PROJECTS. BMPs SHALL BE INSTALLED IN ACCORDANCE WITH INDUSTRY RECOMMENDED STANDARDS, AND/OR IN ACCORDANCE WITH ANY GENERAL CONSTRUCTION PERMIT ISSUED BY THE STATE FOR THE PROJECT TO PREVENT ANY DISCHARGES FROM THE PROJECT SITE OR INTO ANY STORM DRAIN FACILITIES. ALL SEDIMENTS, CONSTRUCTION MATERIALS, DEBRIS AND WASTES, AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, WIND, OR VEHICLE TRACKING, UNDER DIRECTION OF THE ENGINEER OF RECORD. EROSION AND/OR SEDIMENT CONTROL DEVICES SHALL BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES TO ENSURE EFFECTIVENESS.

NOTES TO CONTRACTOR:

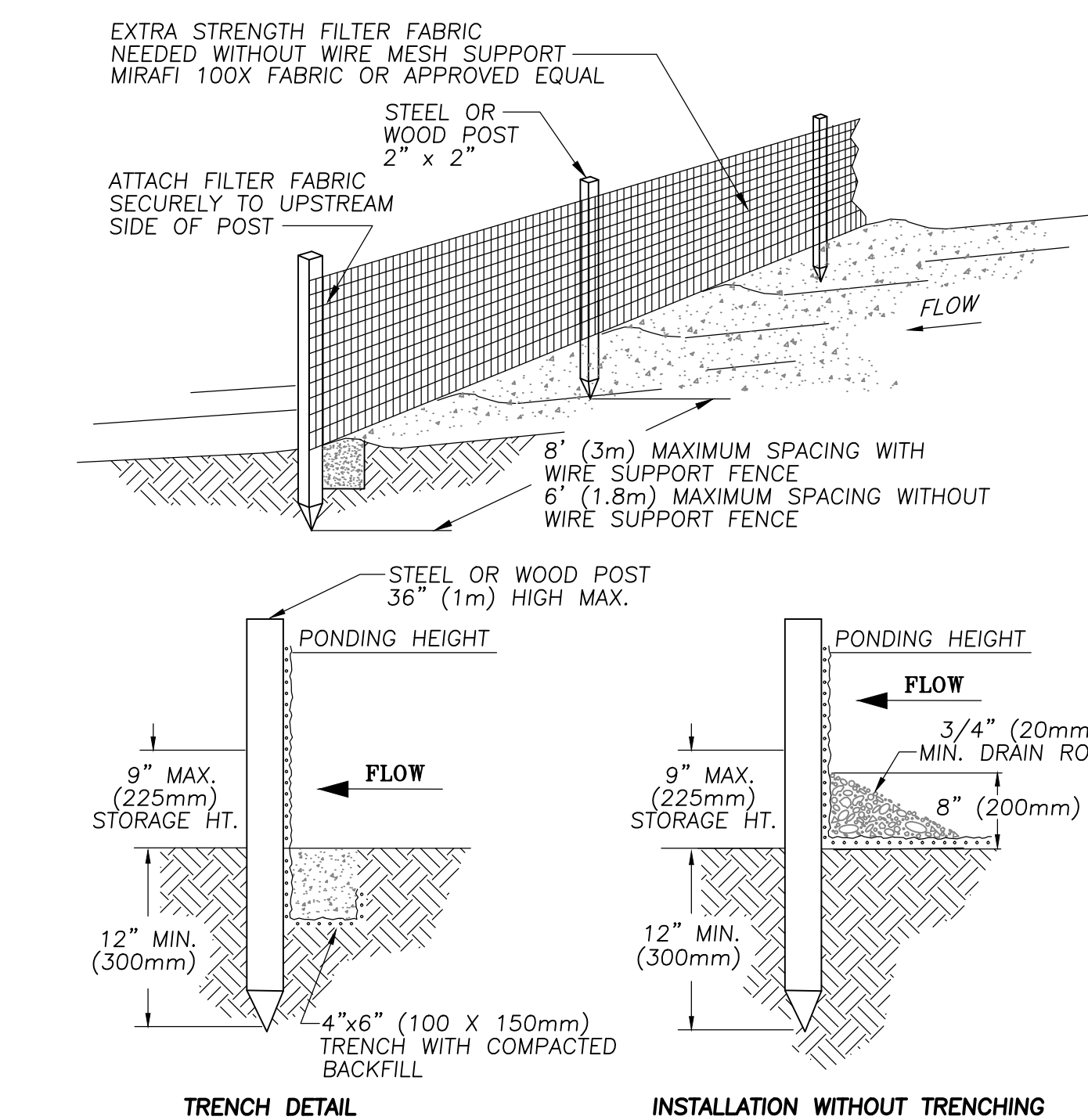
STABILIZED CONSTRUCTION ENTRANCE AND RECYCLING STORAGE AREA SHALL BE DESIGNATED BY SITE SUPERVISOR AND INCLUDED ON THE SWPPP / EROSION CONTROL PLAN, AS SITE CONDITIONS CHANGE, THE SWPPP / EROSION CONTROL PLAN SHALL BE UPDATED TO REFLECT CURRENT CONDITIONS.

IT IS THE CONTRACTOR/SUPERVISOR'S RESPONSIBILITY TO KEEP THE SWPPP MAP CURRENT. BMPs SHOULD BE ADDED, MOVED OR REMOVED BASED ON SITE CONDITIONS. HAND-MARKED ALTERATIONS WITH INITIALS AND DATE ARE AN ACCEPTABLE FORM OF ALTERATION. THE CONTRACTOR MAY BE ASKED AT ANY TIME TO PRODUCE THE SWPPP MAP. FAILURE TO KEEP THE MAP CURRENT COULD RESULT IN A NOTICE OF VIOLATION AND/OR FINE.

EROSION CONTROL NOTES:

GRAVEL BAGS

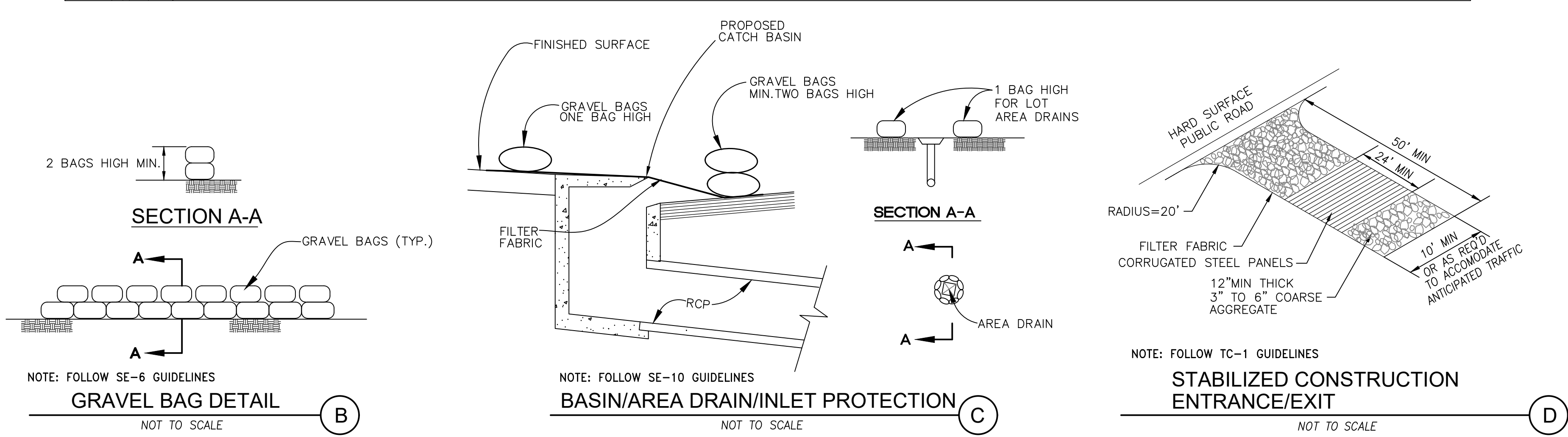
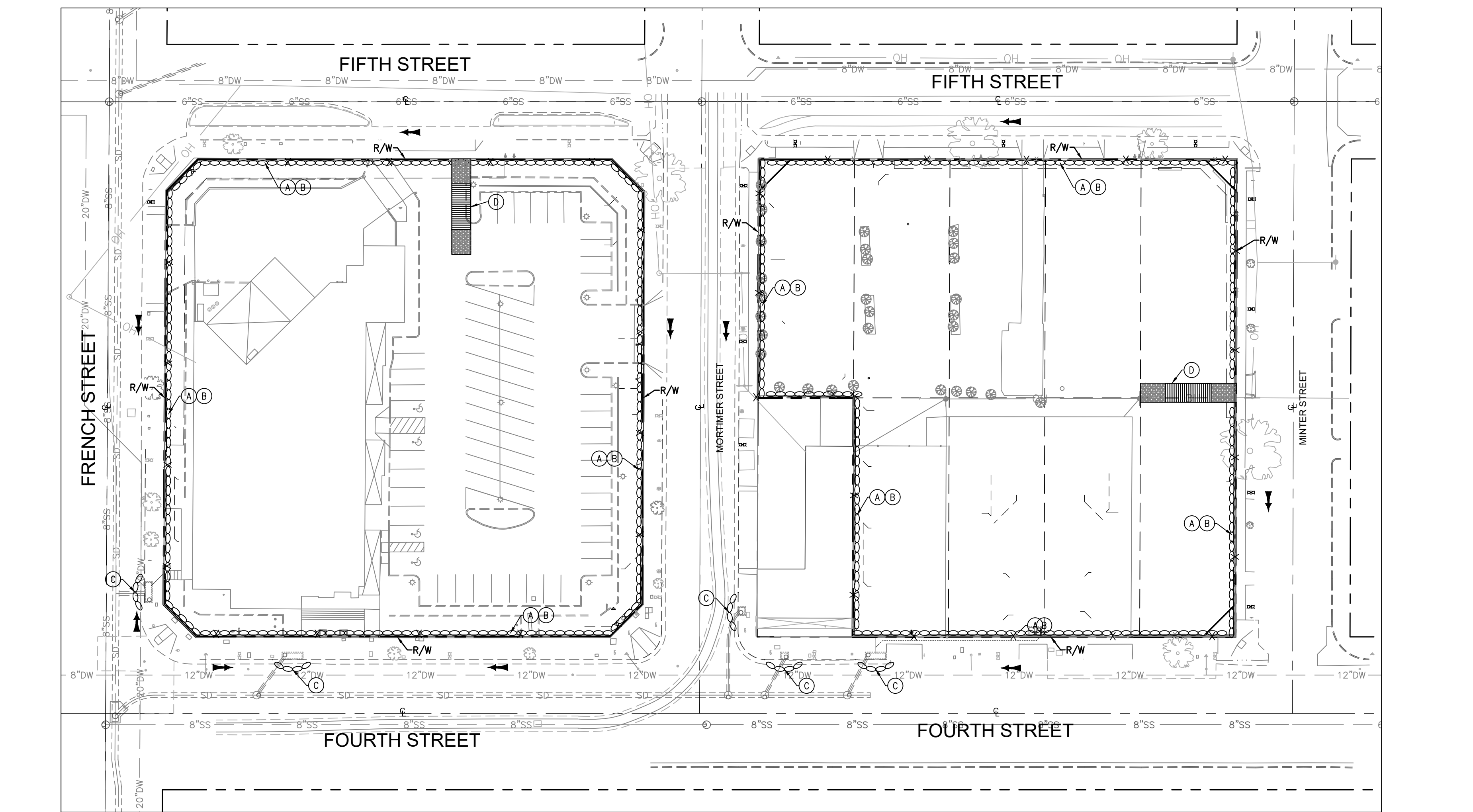
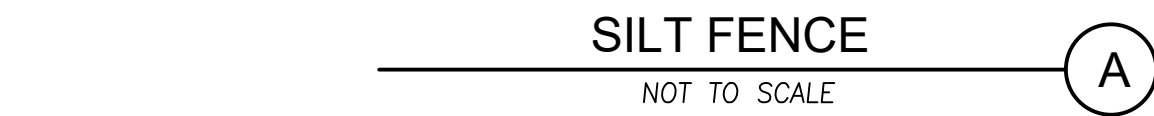
- GENERAL: GRAVEL BAG SHALL INCLUDE PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT TO FABRICATE AND INSTALL GRAVEL BAGS AS REQUIRED TO FACILITATE THE CONTROL OF EROSION.
- LOCATION: GRAVEL BAGS SHALL BE PLACED PER PLAN, AND IN LOCATIONS SPECIFIED BY THE CITY, AND IN LOCATIONS DEEMED NECESSARY BY THE CONTRACTOR.
- FABRICATION: GRAVEL BAGS SHALL BE FABRICATED USING FACTORY SEWN OR SEALED BAGS OF WOVEN POLYPROPYLENE, TREATED TO RESIST DEGRADATION BY ULTRAVIOLET LIGHT AND HAVING SUFFICIENT RESISTANCE TO TEARING TO ALLOW RELOCATION OF BAGS WITHIN SIX MONTHS OF INITIAL PLACEMENT WITH A LOSS OF NOT MORE THAN FIVE PERCENT OF THE BAGS. THE BAGS SHALL BE FILLED WITH SUB-ROUNDED TO ROUNDED GRAVEL LESS THAN 3/4-INCH IN DIAMETER, WITH LESS THAN FIVE PERCENT OF MATERIAL PASSING A NO. 30 SIEVE. THE FILLED BAGS SHALL HAVE THE OPEN ENDS SECURELY FASTENED PRIOR TO DELIVERY TO THE SITE.
- INSTALLATION: GRAVEL BAGS SHALL BE INSTALLED IN A MANNER TO ENTRAP SILT AND MUD, AND TO DIVERT THE FLOW OF WATER. NOTWITHSTANDING THE OTHER REQUIREMENTS OF THIS SPECIFICATION, FAILURE OF THE BAGS TO PERFORM THIS FUNCTION SHALL BE REASON TO REJECT THEIR INSTALLATION. GRAVEL BAGS SHALL BE INSTALLED WITH THE WIDEST FACE AGAINST THE GROUND SURFACE OR THE UNDERLYING COURSE OF BAGS, AND PRESSED IN PLACE TO CONFORM TO THE UNDERLYING SURFACE. THE BAGS SHALL BE PLACED WITH THE TIED ENDS IN THE "UPHILL" OR "UPSTREAM" DIRECTION, BEGINNING AT THE LOWEST OR MOST DOWNSTREAM BAG. TIED ENDS WILL BE TUCKED UNDER BAG. SUBSEQUENT BAGS WITHIN ONE COURSE OF BAGS SHALL BE PLACED SO AS TO REST UPON THE TIED END OF THE PREVIOUSLY PLACED BAG, WITH NOT LESS THAN 10 PERCENT OF THE BAG IN CONTACT WITH THE PREVIOUS BAG, AND NOT MORE THAN 20 PERCENT IN CONTACT. SUBSEQUENT COURSES OF BAGS SHALL BE PLACED AS DESCRIBED PREVIOUSLY, WITH THE MID-POINT OF THE BAGS STRADDLING THE JOINTS. CONSTRUCTION OF A GRAVEL BAG BERM PERPENDICULAR TO THE DIRECTION OF FLOW SHALL INCORPORATE BAGS PLACED IN A "PYRAMID" CONFIGURATION, WITH ALL INDIVIDUAL BAGS ORIENTED PERPENDICULAR TO THE DIRECTION OF FLOW. THE BERM SHALL BE CONSTRUCTED WITH A SPECIFIED NUMBER OF ROWS AT THE BOTTOM (IN CONTACT WITH THE GROUND), WITH SUCCESSIVELY FEWER ROWS IN EACH OVERLYING COURSE. THE UPSTREAM AND DOWNSTREAM FACES OF THE BERM SHALL BE NO STEEPER THAN 1 1/2 FEET HORIZONTAL TO 1 VERTICAL. DAMAGE WHICH COULD FORSEEABLY BE PREVENTED BY PROPER GRAVEL BAG INSTALLATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- COMPENSATION: THE PERFORMANCE OF THE REQUIREMENTS OF THIS SECTION SHALL BE COMPENSATED AT THE CONTRACT UNIT PRICES FOR GRAVEL BAGS.



NOTES:

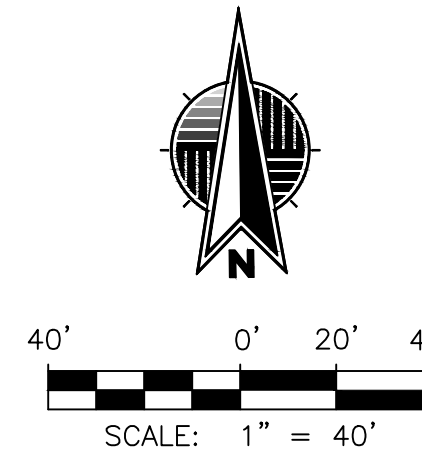
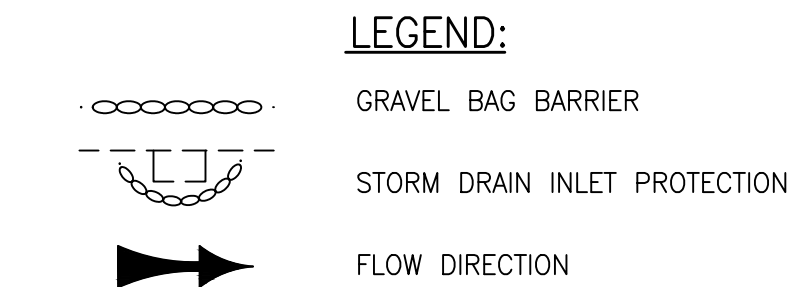
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY. THE LAST 8' OF FENCE SHALL BE TURNED UP SLOPE.
- STAKES SHALL BE SPACED 8'-0" MAXIMUM AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE. STAKES TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH STAKE ONE FULL TURN. SECURE FABRIC TO STAKE WITH 4 STAPLES.
- FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
- CROSS BARRIERS SHALL BE A MINIMUM OF 1/3 AND A MAXIMUM OF 1/2 THE HEIGHT OF THE LINEAR BARRIER.
- ADD 3-4 GRAVEL BAGS TO CROSS BARRIER ON DOWN-GRADIENT SIDE OF SILT FENCE AS NEEDED TO PREVENT BYPASS OR UNDERMINING AND AS ALLOWABLE BASED ON SITE LIMITS OF DISTURBANCE. BAGS MAY REQUIRE PINNING AT DIRECTION OF ENGINEER.
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

NOTE: FOLLOW SE-1 GUIDELINES




CONSTRUCTION NOTES

- INSTALL PERIMETER CONTROL USING SILT FENCE PER BMP SE-1 AND DETAIL HEREON
- INSTALL PERIMETER CONTROL GRAVEL BAGS (2 BAGS HIGH) PER BMP SE-6 AND DETAIL HEREON
- INSTALL STORM DRAIN INLET PROTECTION PER BMP SE-10 AND DETAIL HEREON
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE/EXIT PER BMP TC-1 AND DETAIL HEREON




PLAN CHECK NO. XXXXXXXX
DP NO. XXX



PREPARED BY:

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PREPARED UNDER THE SUPERVISION OF:

JOSHUA J.D. RUIZ RCE NO.: 090418
DESIGNED: GA DRAWN: GA CHECKED: JR
RECOMMENDED:
RECOMMENDED FOR CONSTRUCTION:
RCE NO.:

DATE

PROJECT NO.
774-009

SHEET
3
OF
X

DEMOLITION PLAN
4TH AND MORTIMER
EROSION CONTROL PLAN

PUBLIC WORKS AGENCY
CITY OF SANTA ANA

PROJECT NO
774-009

SHEET
3
OF 3





WET SEASON REQUIREMENTS (OCTOBER 1 THROUGH APRIL 30)		
WET SEASON REQUIREMENTS IN ADDITION TO THE DRY SEASON REQUIREMENTS:	SPECIFIED BMPs BMP Detail(s)/Sheet Number	
A. SEDIMENT CONTROL BMPs SHALL BE IMPLEMENTED AT THE SITE PERIMETER, AT ALL OPERATIONAL STORM DRAINAGE SITES AND AT ALL NON-ACTIVE SLOPES, TO PROVIDE SUFFICIENT PROTECTION FOR STORMS LIKELY TO OCCUR DURING THE RAINY SEASON.	SE-5, SE-6, SE-7, SE-8, SE-9, SE-10	
B. ADEQUATE PHYSICAL OR VEGETATION EROSION CONTROL BMPs (TEMPORARY OR PERMANENT) SHALL BE INSTALLED AND ESTABLISHED FOR ALL COMPLETED SLOPES PRIOR TO THE START OF THE RAINY SEASON. THESE BMPs MUST BE MAINTAINED THROUGHOUT THE RAINY SEASON. IF A SELECTED BMP FAILS, IT MUST BE REPAIRED AND IMPROVED, OR REPLACED WITH AN ACCEPTABLE ALTERNATE AS SOON AS IT IS SAFE TO DO SO. THE FAILURE OF A BMP MAY INDICATE THAT THE BMP, AS INSTALLED, WAS NOT ADEQUATE FOR THE CIRCUMSTANCES IN WHICH IT WAS USED. REPAIRS OR REPLACEMENTS MUST RESULT IN A MORE ROBUST BMP, OR ADDITIONAL BMPs SHOULD BE INSTALLED TO PROVIDE ADEQUATE PROTECTION.	EC-1, EC-5, EC-8	
C. THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY DEPLOYING THE REFERENCED STANDBY EROSION CONTROL AND SEDIMENT CONTROL BMPs PRIOR TO A PREDICTED RAINSTORM.	EC-5, SE-6, SE-7, SE-10	
D. A DISTURBED AREA THAT IS NOT COMPLETED BUT THAT IS NOT BEING ACTIVELY GRADED (NON-ACTIVE AREA) SHALL BE FULLY PROTECTED FROM EROSION WITH THE REFERENCED TEMPORARY AND/OR PERMANENT BMPs (EROSION AND SEDIMENT CONTROL), THE ABILITY TO DEPLOY STANDBY BMP MATERIALS IS NOT SUFFICIENT FOR THESE AREAS. EROSION AND SEDIMENT CONTROL BMPs MUST ACTUALLY BE DEPLOYED. THIS INCLUDES ALL BUILDING PADs, UNFINISHED ROADS AND SLOPES.	EC-5, SE-6, SE-10	
E. SUFFICIENT MATERIALS NEEDED TO INSTALL REFERENCED STANDBY EROSION AND SEDIMENT CONTROL BMPs NECESSARY TO COMPLETELY PROTECT THE EXPOSED PORTIONS OF THE SITE FROM EROSION AND TO PREVENT SEDIMENT DRIFT SLOPES SHALL BE STORED ON SITE. AREAS THAT HAVE ALREADY BEEN PROTECTED FROM EROSION USING PERMANENT PHYSICAL STABILIZATION OR ESTABLISHED VEGETATION STABILIZATION BMPs ARE NOT CONSIDERED "EXPOSED" FOR PURPOSES OF THIS REQUIREMENT.	SE-5, SE-6, SE-7, SE-8, EC-5	

NOTE: FOR RISK LEVEL 2 AND 3 SITES, THERE SHALL BE A "RAIN EVENT ACTION PLAN" AND THE ABILITY TO DEPLOY STANDBY EROSION AND SEDIMENT CONTROL BMPs AS NEEDED TO COMPLETELY PROTECT THE EXPOSED PORTIONS OF THE SITE WITHIN 48 HOURS OF A PREDICTED STORM EVENT (A PREDICTED STORM EVENT IS DEFINED AS A FORECASTED 50% CHANCE OF RAIN)

<p align="center">DRY SEASON REQUIREMENTS (MAY 1 THROUGH SEPTEMBER 30)</p>	
<p align="center">DRY SEASON REQUIREMENTS</p>	<p align="center">SPECIFIED BMPs BMP Detail(s)/Sheet Number</p>
A. WIND EROSION BMPs (DUST CONTROL) SHALL BE IMPLEMENTED.	WE-1
B. SEDIMENT CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED AT ALL OPERATIONAL STORM DRAIN INLETS INTERNAL TO THE PROJECT.	SE-10
C. BMPs TO CONTROL OFF-SITE SEDIMENT TRACKING SHALL BE IMPLEMENTED AND MAINTAINED.	TC-1, TC-2, TC-3
D. APPROPRIATE WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs SHALL BE IMPLEMENTED TO PREVENT THE CONTAMINATION OF STORMWATER BY WASTES AND CONSTRUCTION MATERIALS.	WM-1, WM-2, WM-3, WM-4, WM-5, WM-6, WM-8, WM-9
E. APPROPRIATE NON-STORMWATER BMPs SHALL BE IMPLEMENTED TO PREVENT THE CONTAMINATION OF STORMWATER FROM CONSTRUCTION ACTIVITIES.	NS-1, NS-3, NS-6, NS-8, NS-9, NS-10
F. DEPLOYMENT OF PERMANENT EROSION CONTROL BMPs (PHYSICAL OR VEGETATION) SHALL COMMENCE AS SOON AS PRACTICAL ON SLOPES THAT ARE COMPLETED FOR ANY PORTION OF THE SITE. STANDBY BMP MATERIALS SHALL NOT BE RELIED UPON TO PREVENT EROSION OF SLOPES THAT HAVE BEEN COMPLETED.	

NOTE 1: THERE SHALL BE A "WEATHER TRIGGERED" ACTION PLAN AND THE ABILITY TO DEPLOY STANDBY SEDIMENT CONTROL BMPs AS NEEDED TO COMPLETELY PROTECT THE EXPOSED PORTIONS OF THIS SITE WITHIN 48 HOURS OF A PREDICTED STORM EVENT (A PREDICTED STORM EVENT IS DEFINED AS A FORECASTED 50% CHANCE OF RAIN).

NOTE 2: SUFFICIENT MATERIALS NEEDED TO INSTALL STANDBY SEDIMENT CONTROL BMPs (AT THE SITE PERIMETER, SITE SLOPES AND OPERATIONAL INLETS WITHIN THE SITE) NECESSARY TO PREVENT SEDIMENT DISCHARGES FROM EXPOSED PORTIONS OF THE SITE SHALL BE STORED ON SITE. AREAS THAT HAVE ALREADY BEEN PROTECTED FROM EROSION USING PHYSICAL STABILIZATION OR ESTABLISHED VEGETATION STABILIZATION BMPs AS DESCRIBED IN ITEM F ABOVE ARE NOT CONSIDERED "EXPOSED" FOR PURPOSES OF THIS REQUIREMENT.

SYMBOL		DESCRIPTION	
ENTIRE SITE	WE-1	WIND EROSION CONTROLS	
	TC-1	STABILIZED CONSTRUCTION ENTRANCE	
	SE-1	SILT FENCE	
	SE-6	GRAVEL BAG BARRIER	
	SE-10	STORM DRAIN INLET PROTECTION	

BMP DETAILS CAN BE OBTAINED IN THE SWPPP PREPARED FOR THIS PROJECT BY FUSCOE ENGINEERING OR
http://www.ocwatersheds.com/StormWater/documents_bmp_construction.asp



DIAL TOLL FREE
811
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT (USA)
OF SOUTHERN CALIFORNIA

[illegible]

POLLUTION PREVENTION NOTES

IN ORDER TO MEET THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM FOR CONSTRUCTION, CONSTRUCTION CONTRACTORS SHALL INSTALL AND MAINTAIN BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT EROSION AND SEDIMENTATION. THE CONTROL PLAN, ON ALL CONSTRUCTION PROJECTS, BMPs SHALL BE INSTALLED IN ACCORDANCE WITH INDUSTRY RECOMMENDED STANDARDS, AND/OR IN ACCORDANCE WITH ANY GENERAL CONSTRUCTION PERMIT ISSUED BY THE STATE OF CALIFORNIA. BMPs SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION OF THE FORM-DRAIN FACILITIES. ALL SEDIMENTS, CONSTRUCTION WASTEWATER, FERTILISERS AND PESTICIDES, AND OTHER POLLUTANTS SHALL BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, WIND, OR VEHICLE TRACKING. UNDER DIRECTION OF THE ENGINEER OF THE PROJECT, THE CONSTRUCTION CONTROL DEVICES SHALL BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES TO ENSURE EFFECTIVENESS.

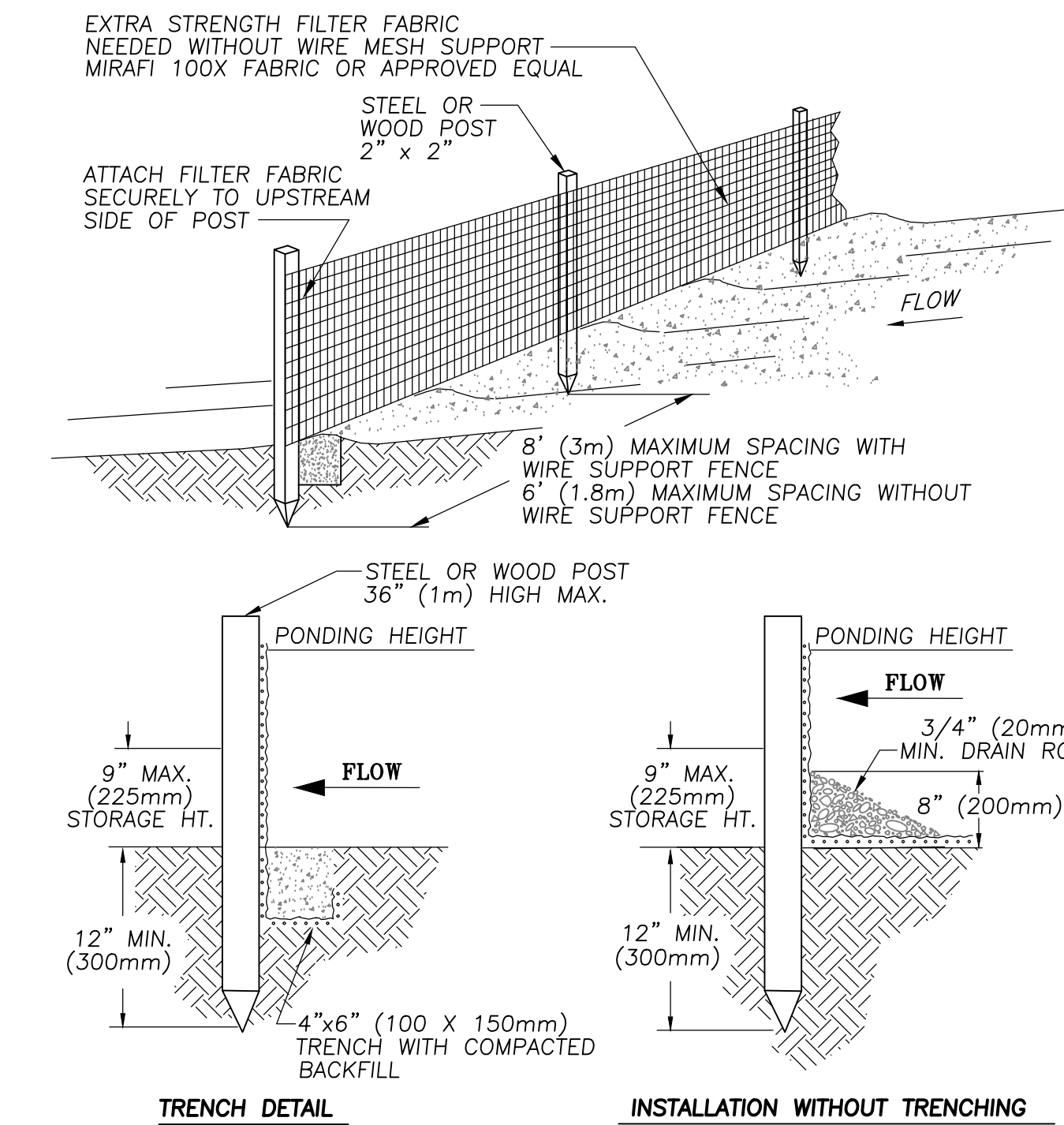
NOTES TO CONTRACTOR

STABILIZED CONSTRUCTION ENTRANCE AND RECYCLING STORAGE AREA SHALL BE DESIGNATED BY SITE SUPERVISOR AND INCLUDED ON THE SWPPP / EROSION CONTROL PLAN. AS SITE CONDITIONS CHANGE, THE SWPPP / EROSION CONTROL PLAN SHALL BE UPDATED TO REFLECT CURRENT CONDITIONS.

EROSION CONTROL NOTES

GRAVEL BAGS

1. GENERAL: GRAVEL BAGS SHALL INCLUDE PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT TO FABRICATE AND INSTALL GRAVEL BAGS AS REQUIRED TO FACILITATE THE CONTROL OF EROSION.
2. LOCATION: GRAVEL BAGS SHALL BE PLACED PER PLAN, AND IN LOCATIONS SPECIFIED BY THE CITY, AND IN LOCATIONS DEEMED NECESSARY BY THE CONTRACTOR.
3. FABRICATION: GRAVEL BAGS SHALL BE FABRICATED USING FACTORY SEWN OR SEALED BAGS OF WOVEN POLYPROPYLENE, TREATED TO RESIST DEGRADATION BY ULTRAVIOLET LIGHT AND HAVING SUFFICIENT RESISTANCE TO TEARING TO ALLOW RELOCATION OF BAGS WITHIN SIX MONTHS OF INITIAL PLACEMENT WITH A LOSS OF NOT MORE THAN FIVE PERCENT OF THE BAGS. THE BAGS SHALL BE FILLED WITH SUB-ROCK, 1/2" TO 3/4" IN SIZE, LESS THAN 1% FINER, TO BE PLACED WITH NO MORE THAN FIVE PERCENT OF MATERIAL PASSING A NO. 30 SIEVE. THE FILLED BAGS SHALL HAVE THE OPEN ENDS SECURELY FASTENED PRIOR TO DELIVERY TO THE SITE.
4. INSTALLATION: GRAVEL BAGS SHALL BE INSTALLED IN A MANNER TO ENTRAP SILT AND MUD, AND TO DIVERT THE FLOW OF WATER. NOTWITHSTANDING THE OTHER REQUIREMENTS OF THIS SPECIFICATION, THE FLOW OF THE BAGS TO PREVENT THIS FUNCTION SHALL BE REASON TO REJECT THEIR INSTALLATION. GRAVEL BAGS SHALL BE INSTALLED WITH THE WIDEST FACE AGAINST THE GROUND SURFACE OR THE UNDERLYING COURSE TO BE PROTECTED AND PRESSED IN PLACE TO CONFORM TO THE UNDERLYING SURFACE. THE BAGS SHALL BE PLACED WITH THE TIED ENDS IN THE "UPHILL" OR "UPSTREAM" DIRECTION, BEGINNING AT THE LOWEST OR MOST DOWNSTREAM BAG. TIED ENDS WILL BE TUCKED UNDER BAG. SUBSEQUENT BAGS SHALL BE PLACED UPSTREAM OF THE FIRST BAG TO BE PROTECTED TO REDUCE THE TENSION AT THE TIED ENDS OF THE PREVIOUSLY PLACED BAG, WITH NOT LESS THAN 10 PERCENT OF THE BAG IN CONTACT WITH THE PREVIOUS BAG, AND NOT MORE THAN 20 PERCENT IN CONTACT. SUBSEQUENT COURSES OF BAGS SHALL BE PLACED AS DESCRIBED PREVIOUSLY, WITH THE MID-POINT OF THE BAGS STRADDLING THE JOINTS CONSTRUCTION OF THE BAGS. THE BERM SHALL BE CONSTRUCTED WITH THE BERM SHALL INCORPORATE BAGS PLACED IN A "PYRAMID" CONFIGURATION, WITH ALL INDIVIDUAL BAGS ORIENTED PERPENDICULAR TO THE DIRECTION OF FLOW. THE BERM SHALL BE CONSTRUCTED WITH A SPECIFIED NUMBER OF ROWS AT THE BOTTOM (IN CONTACT WITH THE GROUND), WITH SUCCESSIVELY FEWER ROWS IN EACH OVERLYING COURSE. THE UPSTREAM END DOWN TO THE BERM SHALL BE NO LESS THAN 1/2 FEET HORIZONTAL TO 1 VERTICAL. DAMAGE WHICH COULD FORCEABLY BE PREVENTED BY PROPER GRAVEL BAG INSTALLATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. COMPENSATION: THE PERFORMANCE OF THE REQUIREMENTS OF THIS SECTION SHALL BE COMPENSATED AT THE CONTRACT UNIT PRICES FOR GRAVEL BAGS.



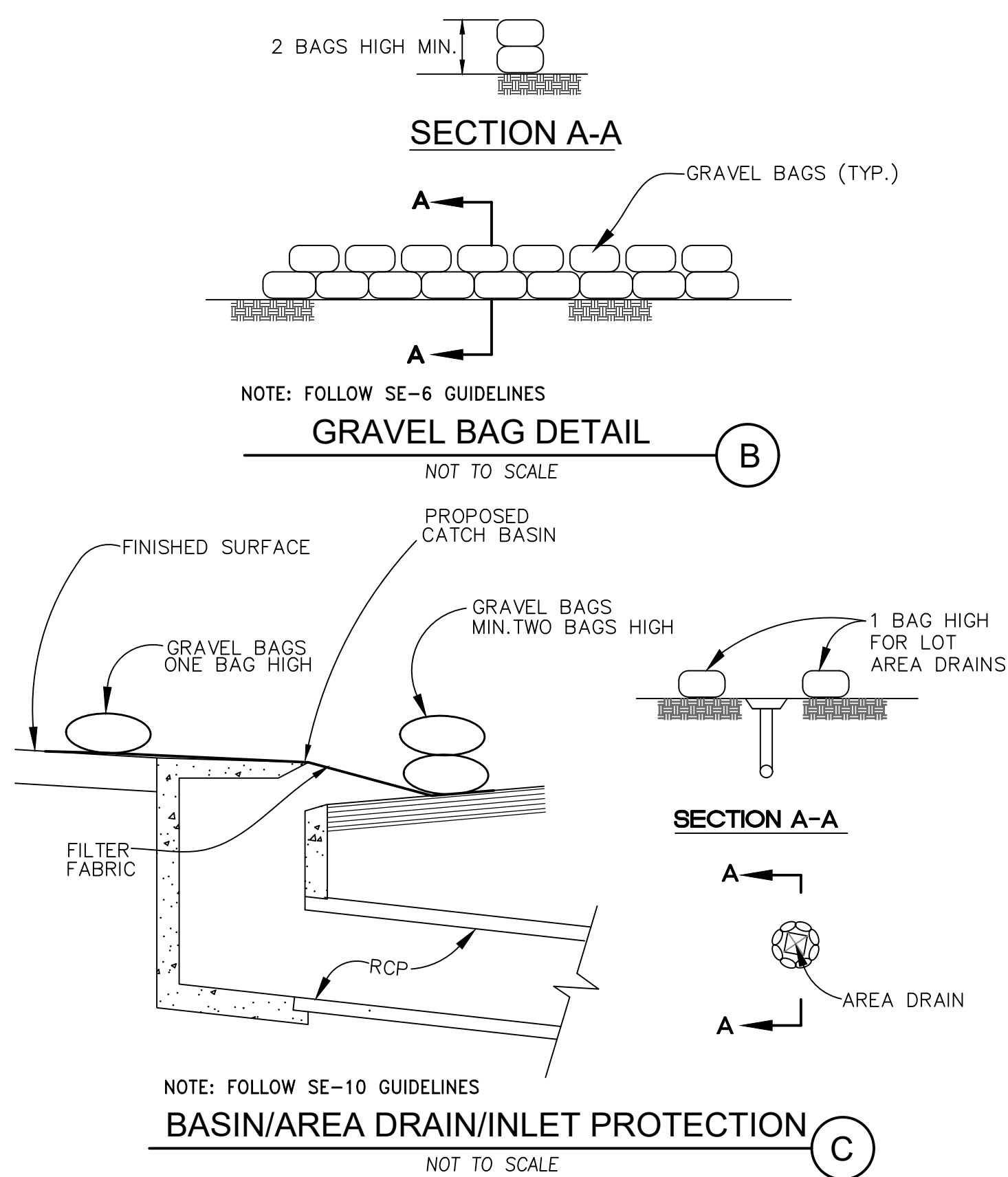
NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY. THE LAST 8' OF FENCE SHALL BE TURNED UP SLOPE.
2. STAKES SHALL BE SPACED 8'-0" MAXIMUM AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE. STAKES TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH STAKE ONE FULL TURN SECURE FABRIC TO STAKE WITH 4 STAPLES.
3. FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
4. CROSS BARRIERS SHALL BE A MINIMUM OF 1/3 AND A MAXIMUM OF 1/2 THE HEIGHT OF THE LINEAR BARRIER.
5. ADD 3-4 GRAVEL BAGS TO CROSS BARRIER ON DOWN-GRADIENT SIDE OF SILT FENCE AS NEEDED TO PREVENT BYPASS OR UNDERMINING AND AS ALLOWABLE BASED ON SITE LIMITS OF DISTURBANCE. BAGS MAY REQUIRE PINNING AT DIRECTION OF ENGINEER.
6. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
7. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

NOTE: FOLLOW SE-1 GUIDELINES

SILT FENCE

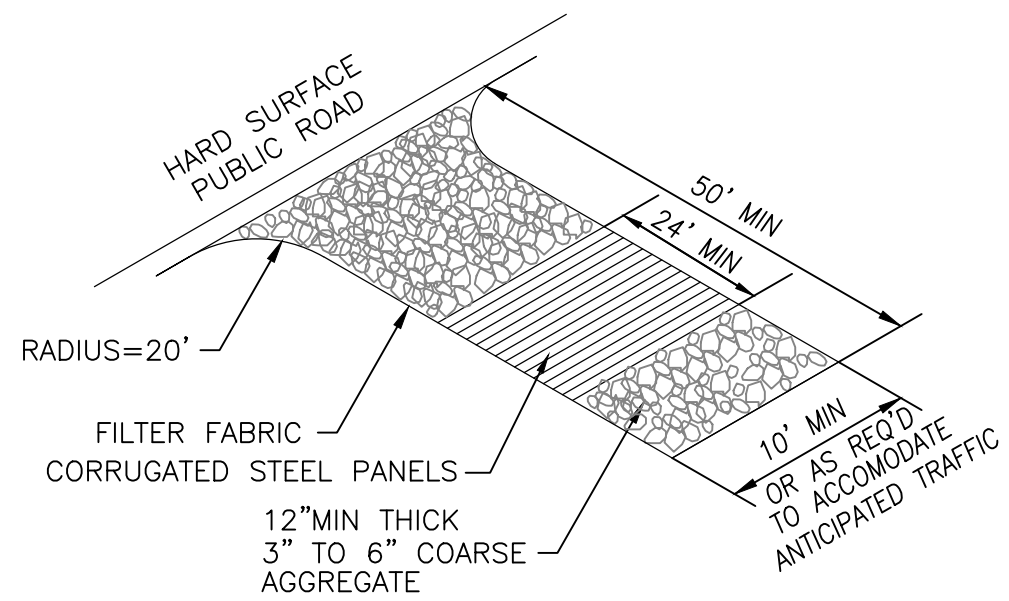
NOT TO SCALE



NOTE: FOLLOW SE-10 GUIDELINES

BASIN/AREA DRAIN/INLET PROTECTION

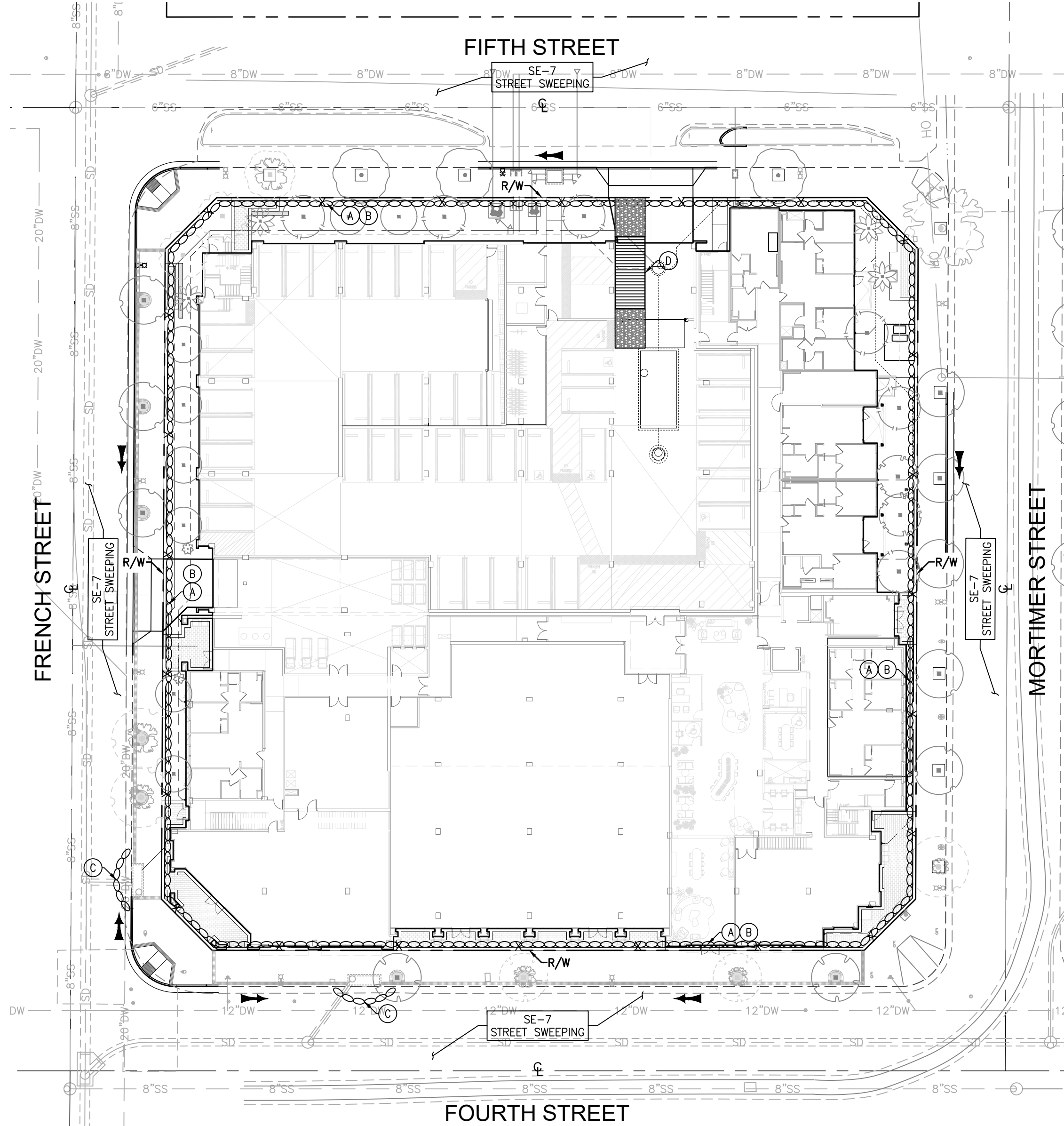
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NOTE: FOLLOW TC-1 GUIDELINES

STABILIZED CONSTRUCTION ENTRANCE/EXIT




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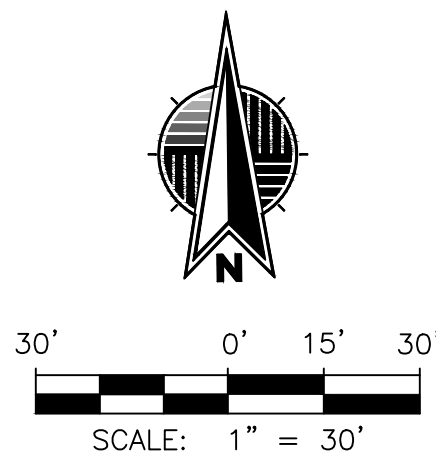


CONSTRUCTION NOTES

- (A) INSTALL PERIMETER CONTROL USING SILT FENCE PER BMP SE-1 AND DETAIL HEREON
- (B) INSTALL PERIMETER CONTROL GRAVEL BAGS (2 BAGS HIGH) PER BMP SE-6 AND DETAIL HEREON
- (C) INSTALL STORM DRAIN INLET PROTECTION PER BMP SE-10 AND DETAIL HEREON
- (D) CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE/EXIT PER BMP TC-1 AND DETAIL HEREON

LEGEND:

-  GRAVEL BAG BARRIER
 STORM DRAIN INLET PROTECTION
 FLOW DIRECTION



PLAN CHECK NO. P01XXXXX
DP NO.

PRECISE GRADING PLAN - BLOCK A

4TH & MORTIMER

EROSION CONTROL PLAN

PUBLIC WORKS AGENCY

CITY OF SANTA ANA

774-009

SHEET

9
OF 10

WET SEASON REQUIREMENTS (OCTOBER 1 THROUGH APRIL 30)		
WET SEASON REQUIREMENTS IN ADDITION TO THE DRY SEASON REQUIREMENTS:	SPECIFIED BMPs BMP Detail(s)/Sheet Number	
A. SEDIMENT CONTROL BMPs SHALL BE IMPLEMENTED AT THE SITE PERIMETER, AT ALL OPERATIONAL INLETS, STORM DRAIN INLETS AND AT ALL NON-ACTIVE SLOPES, TO PROVIDE SUFFICIENT PROTECTION FOR STORMS LIKELY TO OCCUR DURING THE RAINY SEASON.	SE-5, SE-6, SE-7, SE-8, SE-9, SE-10	
B. ADEQUATE PHYSICAL OR VEGETATION EROSION CONTROL BMPs (TEMPORARY OR PERMANENT) SHALL BE INSTALLED AND ESTABLISHED FOR ALL COMPLETED SLOPES PRIOR TO THE START OF THE RAINY SEASON. THESE BMPs MUST BE MAINTAINED THROUGHOUT THE RAINY SEASON. IF A SELECTED BMP FAILS, IT MUST BE REPAIRED AND IMPROVED, OR REPLACED WITH AN ACCEPTABLE ALTERNATE AS SOON AS IT IS SAFE TO DO SO. THE FAILURE OF A BMP MAY INDICATE THAT THE BMP, AS INSTALLED, WAS NOT ADEQUATE FOR THE CIRCUMSTANCES IN WHICH IT WAS USED. REPAIRS OR REPLACEMENTS MUST RESULT IN A MORE ROBUST BMP, OR ADDITIONAL BMPs SHOULD BE INSTALLED TO PROVIDE ADEQUATE PROTECTION.	EC-1, EC-5, EC-8	
C. THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH COULD BE ADEQUATELY PROTECTED BY DEPLOYING THE REFERENCED STANDBY EROSION CONTROL AND SEDIMENT CONTROL BMPs PRIOR TO A PREDICTED RAINSTORM.	EC-5, SE-6, SE-7, SE-10	
D. A DISTURBED AREA THAT IS NOT COMPLETED BUT THAT IS NOT BEING ACTIVELY GRADED (NON-ACTIVE AREA) SHALL BE FULLY PROTECTED FROM EROSION WITH THE REFERENCED TEMPORARY AND/OR PERMANENT BMPs (EROSION AND SEDIMENT CONTROL). THE ABILITY TO DEPLOY STANDBY BMP MATERIALS IS NOT SUFFICIENT FOR THESE AREAS. EROSION AND SEDIMENT CONTROL BMPs MUST ACTUALLY BE DEPLOYED. THIS INCLUDES ALL BUILDING PADS, UNFINISHED ROADS AND SLOPES.	EC-5, SE-6, SE-10	
E. SUFFICIENT MATERIALS NEEDED TO INSTALL REFERENCED STANDBY EROSION AND SEDIMENT CONTROL BMPs NECESSARY TO COMPLETELY PROTECT THE EXPOSED PORTIONS OF THE SITE FROM EROSION AND TO PREVENT SEDIMENT DISCHARGES SHALL BE STORED ON SITE. AREAS THAT HAVE ALREADY BEEN PROTECTED FROM EROSION USING PERMANENT PHYSICAL STABILIZATION OR ESTABLISHED VEGETATION STABILIZATION BMPs ARE NOT CONSIDERED "EXPOSED" FOR PURPOSES OF THIS REQUIREMENT.	SE-5, SE-6, SE-7, SE-8, EC-5	


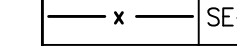
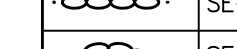
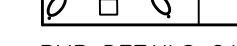
NOTE: FOR RISK LEVEL 2 AND 3 SITES, THERE SHALL BE A "RAIN EVENT ACTION PLAN" AND THE ABILITY TO DEPLOY STANDBY EROSION AND SEDIMENT CONTROL BMPs AS NEEDED TO COMPLETELY PROTECT THE EXPOSED PORTIONS OF THE SITE WITHIN 48 HOURS OF A PREDICTED STORM EVENT (A PREDICTED STORM EVENT IS DEFINED AS A FORECASTED 50% CHANCE OF RAIN).

DRY SEASON REQUIREMENTS (MAY 1 THROUGH SEPTEMBER 30)		
DRY SEASON REQUIREMENTS	SPECIFIED BMPs BMP Detail(s)/Sheet Number	
A. WIND EROSION BMPs (DUST CONTROL) SHALL BE IMPLEMENTED.	WE-1	
B. SEDIMENT CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED AT ALL OPERATIONAL STORM DRAIN INLETS INTERNAL TO THE PROJECT.	SE-10	
C. BMPs TO CONTROL OFF-SITE SEDIMENT TRACKING SHALL BE IMPLEMENTED AND MAINTAINED.	TC-1, TC-2, TC-3	
D. APPROPRIATE WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs SHALL BE IMPLEMENTED TO PREVENT THE CONTAMINATION OF STORMWATER BY WASTES AND CONSTRUCTION MATERIALS.	WM-1, WM-2, WM-3, WM-4, WM-5, WM-6, WM-8, WM-9	
E. APPROPRIATE NON-STORMWATER BMPs SHALL BE IMPLEMENTED TO PREVENT THE CONTAMINATION OF STORMWATER FROM CONSTRUCTION ACTIVITIES.	NS-1, NS-3, NS-6, NS-8, NS-9, NS-10	
F. DEPLOYMENT OF PERMANENT EROSION CONTROL BMPs (PHYSICAL OR VEGETATION) SHALL COMMENCE AS SOON AS PRACTICAL ON SLOPES THAT ARE COMPLETED FOR ANY PORTION OF THE SITE. STANDBY BMP MATERIALS SHALL NOT BE RELIED UPON TO PREVENT EROSION OF SLOPES THAT HAVE BEEN COMPLETED.		

NOTE 1: THERE SHALL BE A "WEATHER TRIGGERED" ACTION PLAN AND THE ABILITY TO DEPLOY STANDBY SEDIMENT CONTROL BMPs AS NEEDED TO COMPLETELY PROTECT THE EXPOSED PORTIONS OF THE SITE WITHIN 48 HOURS OF A PREDICTED STORM EVENT (A PREDICTED STORM EVENT IS DEFINED AS A FORECASTED 50% CHANCE OF RAIN).

NOTE 2: SUFFICIENT MATERIALS NEEDED TO INSTALL STANDBY SEDIMENT CONTROL BMPs (AT THE SITE PERIMETER, SITE SLOPES AND OPERATIONAL INLETS WITHIN THE SITE) NECESSARY TO PREVENT SEDIMENT DISCHARGES FROM EXPOSED PORTIONS OF THE SITE SHALL BE STORED ON SITE. AREAS THAT HAVE ALREADY BEEN PROTECTED FROM EROSION USING PHYSICAL STABILIZATION OR ESTABLISHED VEGETATION STABILIZATION BMPs AS DESCRIBED IN ITEM F ABOVE ARE NOT CONSIDERED "EXPOSED" FOR PURPOSES OF THIS REQUIREMENT.

BMP TABLE:

SYMBOL	DESCRIPTION
ENTIRE SITE	WE-1 WIND EROSION CONTROLS
	TC-1 STABILIZED CONSTRUCTION ENTRANCE
	SE-1 SILT FENCE
	SE-6 GRAVEL BAG BARRIER
	SE-10 STORM DRAIN INLET PROTECTION

BMP DETAILS CAN BE OBTAINED IN THE SWPPP PREPARED FOR THIS PROJECT BY FUSCOE ENGINEERING OR
http://www.ocwatersheds.com/StormWater/documents_bmp_construction.asp



DIAL TOLL FREE
811
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT (USA)
OF SOUTHERN CALIFORNIA

REVISIONS					
NUMBER	DATE	INITIALS	DESCRIPTION	APPROVED	XXX

POLLUTION PREVENTION NOTES

IN ORDER TO MEET THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM FOR CONSTRUCTION, CONSTRUCTION CONTRACTORS SHALL INSTALL AND MAINTAIN APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs), AS SHOWN IN THE EROSION AND SEDIMENT CONTROL PLAN, ON ALL CONSTRUCTION PROJECTS. BMPs SHALL BE INSTALLED IN ACCORDANCE WITH INDUSTRY RECOMMENDED STANDARDS, AND/OR IN ACCORDANCE WITH ANY GENERAL CONSTRUCTION PERMIT ISSUED BY THE STATE FOR THE PROJECT TO PREVENT ANY DISCHARGES FROM THE PROJECT SITE OR INTO ANY STORM DRAIN FACILITIES. ALL SEDIMENTS, CONSTRUCTION MATERIALS, DEBRIS AND WASTES, AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, WIND, OR VEHICLE TRACKING, UNDER DIRECTION OF THE ENGINEER OF RECORD. EROSION AND/OR SEDIMENT CONTROL DEVICES SHALL BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES TO ENSURE EFFECTIVENESS.

NOTES TO CONTRACTOR:

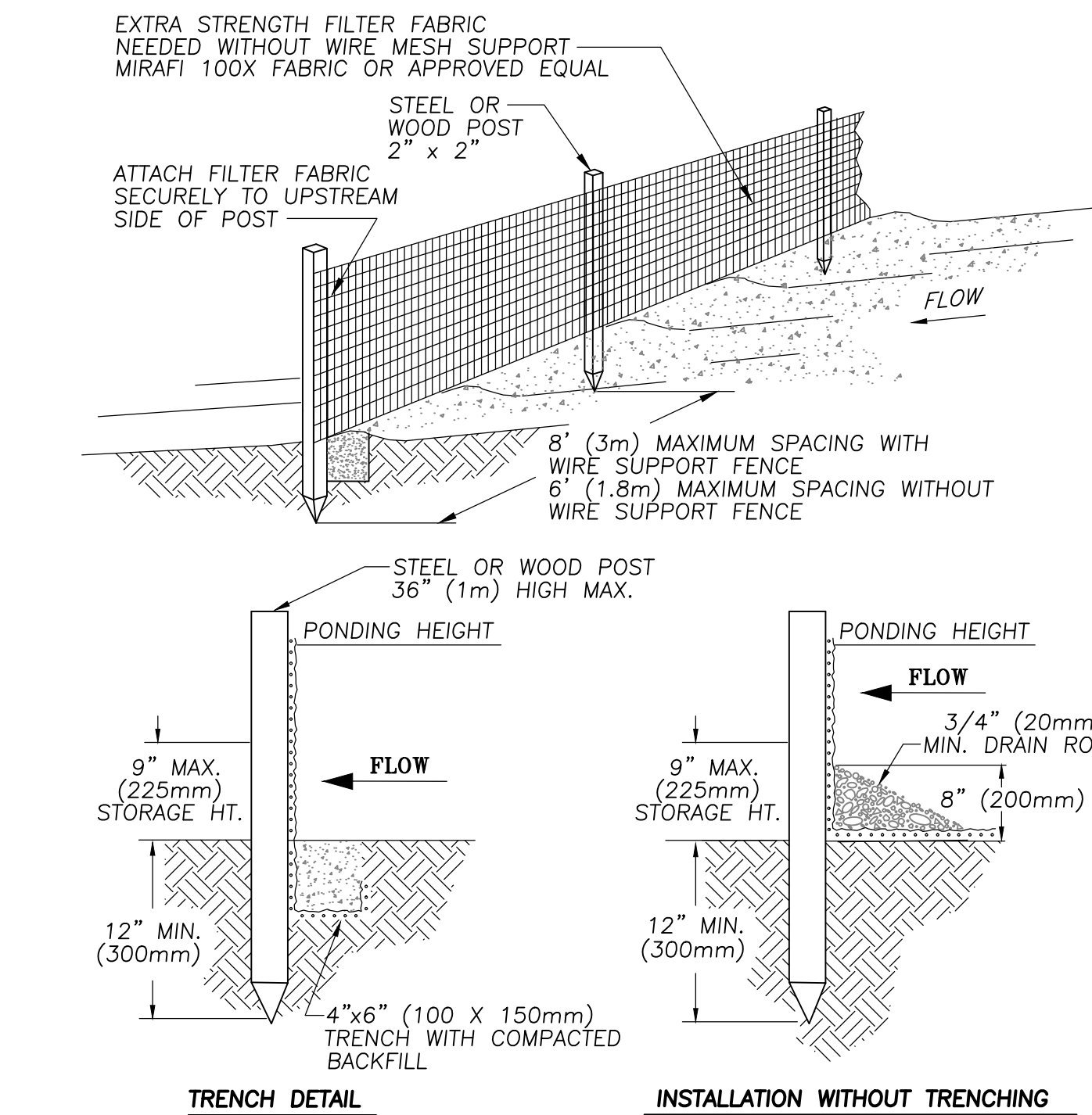
STABILIZED CONSTRUCTION ENTRANCE AND RECYCLING STORAGE AREA SHALL BE DESIGNATED BY SITE SUPERVISOR AND INCLUDED ON THE SWPPP / EROSION CONTROL PLAN, AS SITE CONDITIONS CHANGE, THE SWPPP / EROSION CONTROL PLAN SHALL BE UPDATED TO REFLECT CURRENT CONDITIONS.

IT IS THE CONTRACTOR/SUPERVISOR'S RESPONSIBILITY TO KEEP THE SWPPP MAP CURRENT. BMPs SHOULD BE ADDED, MOVED OR REMOVED BASED ON SITE CONDITIONS. HAND-MARKED ALTERATIONS WITH INITIALS AND DATE ARE AN ACCEPTABLE FORM OF ALTERATION. THE CONTRACTOR MAY BE ASKED AT ANY TIME TO PRODUCE THE SWPPP MAP. FAILURE TO KEEP THE MAP CURRENT COULD RESULT IN A NOTICE OF VIOLATION AND/OR FINE.

EROSION CONTROL NOTES:

GRAVEL BAGS

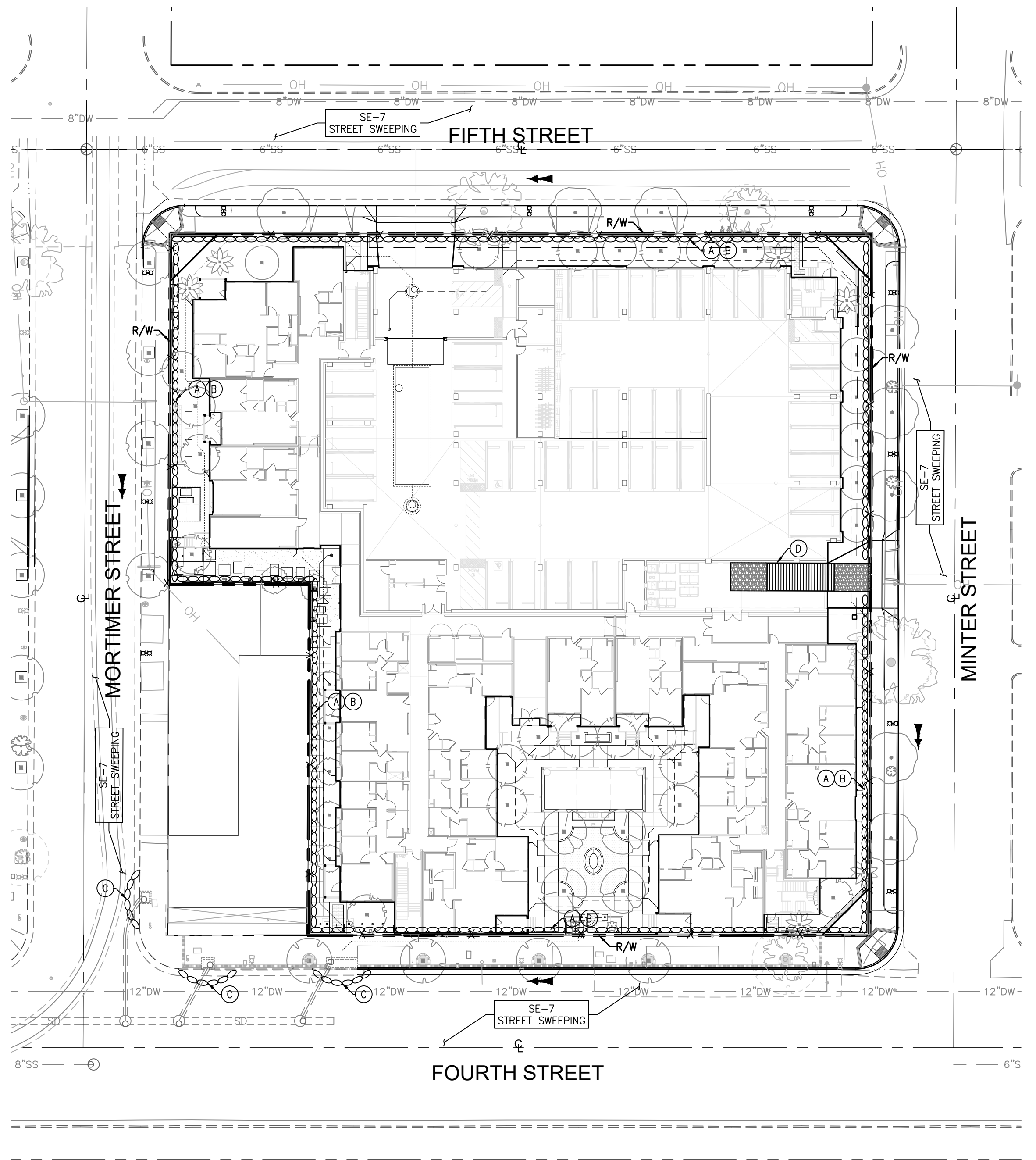
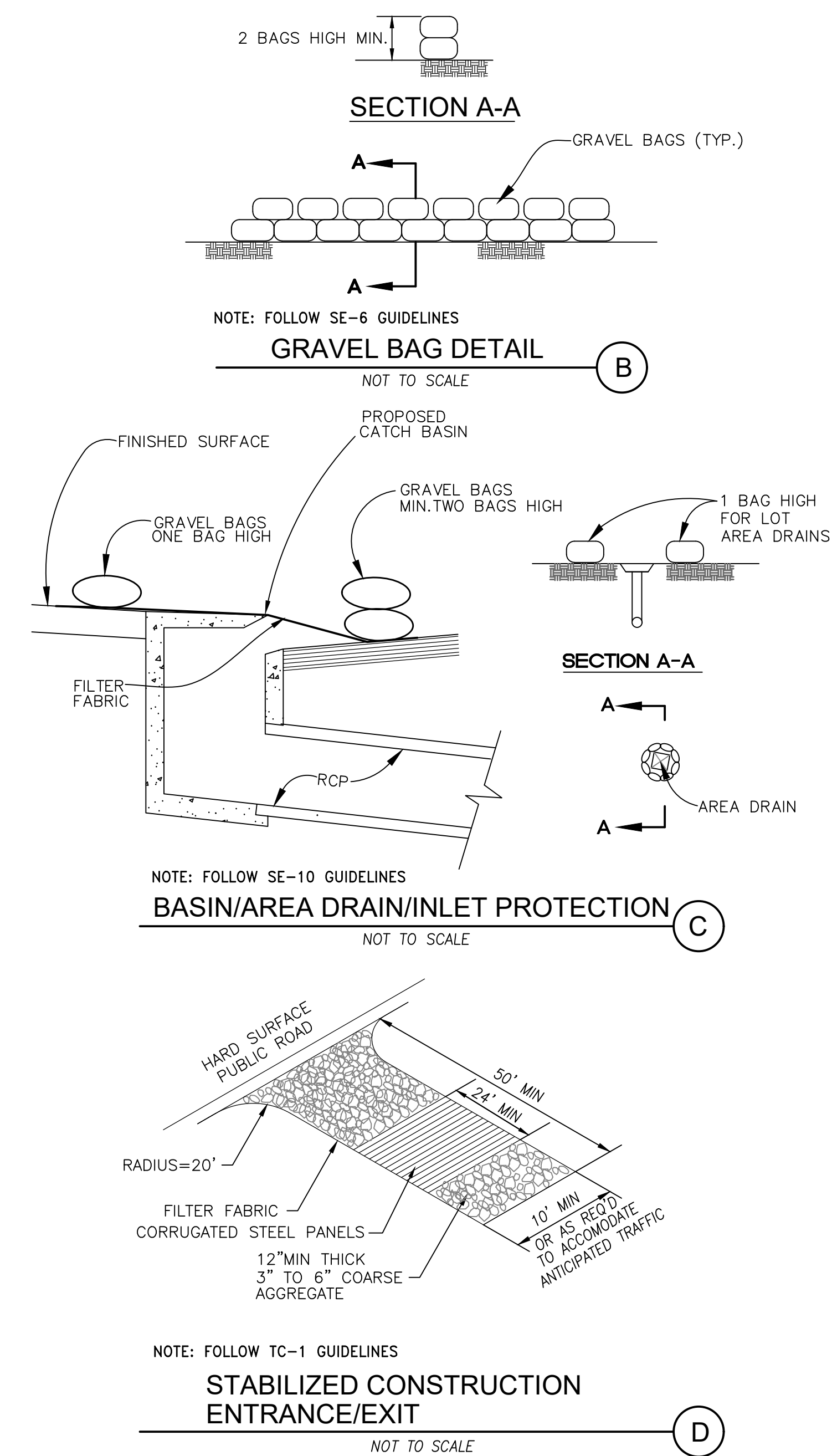
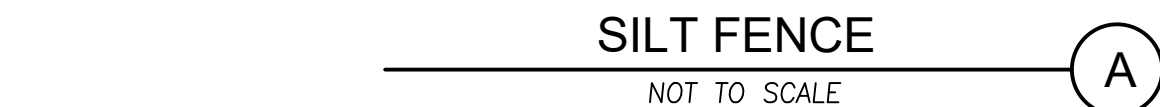
- GENERAL:** GRAVEL BAG SHALL INCLUDE PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT TO FABRICATE AND INSTALL GRAVEL BAGS AS REQUIRED TO FACILITATE THE CONTROL OF EROSION.
- LOCATION:** GRAVEL BAGS SHALL BE PLACED PER PLAN, AND IN LOCATIONS SPECIFIED BY THE CITY, AND IN LOCATIONS DEEMED NECESSARY BY THE CONTRACTOR.
- FABRICATION:** GRAVEL BAGS SHALL BE FABRICATED USING FACTORY SEWN OR SEALED BAGS OF WOVEN POLYPROPYLENE, TREATED TO RESIST DEGRADATION BY ULTRAVIOLET LIGHT AND HAVING SUFFICIENT RESISTANCE TO TEARING TO ALLOW RELOCATION OF BAGS WITHIN SIX MONTHS OF INITIAL PLACEMENT WITH A LOSS OF NOT MORE THAN FIVE PERCENT OF THE BAGS. THE BAGS SHALL BE FILLED WITH SUB-ROUNDED TO ROUNDED GRAVEL LESS THAN 3/4-INCH IN DIAMETER, WITH LESS THAN FIVE PERCENT OF MATERIAL PASSING A NO. 30 SIEVE. THE FILLED BAGS SHALL HAVE THE OPEN ENDS SECURELY FASTENED PRIOR TO DELIVERY TO THE SITE.
- INSTALLATION:** GRAVEL BAGS SHALL BE INSTALLED IN A MANNER TO ENTRAP SILT AND MUD, AND TO DIVERT THE FLOW OF WATER. NOTWITHSTANDING THE OTHER REQUIREMENTS OF THIS SPECIFICATION, FAILURE OF THE BAGS TO PERFORM THIS FUNCTION SHALL BE REASON TO REJECT THEIR INSTALLATION. GRAVEL BAGS SHALL BE INSTALLED WITH THE WIDEST FACE AGAINST THE GROUND SURFACE OR THE UNDERLYING COURSE OF BAGS, AND PRESSED IN PLACE TO CONFORM TO THE UNDERLYING SURFACE. THE BAGS SHALL BE PLACED WITH THE TIED ENDS IN THE "UPHILL" OR "UPSTREAM" DIRECTION, BEGINNING AT THE LOWEST OR MOST DOWNSTREAM BAG. TIED ENDS WILL BE TUCKED UNDER BAG. SUBSEQUENT BAGS WITHIN ONE COURSE OF BAGS SHALL BE PLACED SO AS TO REST UPON THE TIED END OF THE PREVIOUSLY PLACED BAG, WITH NOT LESS THAN 10 PERCENT OF THE BAG IN CONTACT WITH THE PREVIOUS BAG, AND NOT MORE THAN 20 PERCENT OF THE BAGS. THE BAGS SHALL BE PLACED IN A "PYRAMID" CONFIGURATION, WITH ALL INDIVIDUAL BAGS ORIENTED PERPENDICULAR TO THE DIRECTION OF FLOW. THE BERM SHALL BE CONSTRUCTED WITH A SPECIFIED NUMBER OF ROWS AT THE BOTTOM (IN CONTACT WITH THE GROUND), WITH SUCCESSIVELY FEWER ROWS IN EACH OVERLYING COURSE. THE UPSTREAM AND DOWNSTREAM FACES OF THE BERM SHALL BE NO STEEPER THAN 1 1/2 FEET HORIZONTAL TO 1 VERTICAL. DAMAGE WHICH COULD FORSEABLY BE PREVENTED BY PROPER GRAVEL BAG INSTALLATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- COMPENSATION:** THE PERFORMANCE OF THE REQUIREMENTS OF THIS SECTION SHALL BE COMPENSATED AT THE CONTRACT UNIT PRICES FOR GRAVEL BAGS.



NOTES:

- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY. THE LAST 8' OF FENCE SHALL BE TURNED UP SLOPE.
- STAKES SHALL BE SPACED 8'-0" MAXIMUM AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE. STAKES TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH STAKE ONE FULL TURN. SECURE FABRIC TO STAKE WITH 4 STAPLES.
- FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
- CROSS BARRIERS SHALL BE A MINIMUM OF 1/3 AND A MAXIMUM OF 1/2 THE HEIGHT OF THE LINEAR BARRIER.
- ADD 3-4 GRAVEL BAGS TO CROSS BARRIER ON DOWN-GRADIENT SIDE OF SILT FENCE AS NEEDED TO PREVENT BYPASS OR UNDERMINING AND AS ALLOWABLE BASED ON SITE LIMITS OF DISTURBANCE. BAGS MAY REQUIRE PINNING AT DIRECTION OF ENGINEER.
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.


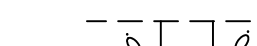

NOTE: FOLLOW SE-1 GUIDELINES




CONSTRUCTION NOTES

- INSTALL PERIMETER CONTROL USING SILT FENCE PER BMP SE-1 AND DETAIL HEREON
- INSTALL PERIMETER CONTROL GRAVEL BAGS (2 BAGS HIGH) PER BMP SE-6 AND DETAIL HEREON
- INSTALL STORM DRAIN INLET PROTECTION PER BMP SE-10 AND DETAIL HEREON
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE/EXIT PER BMP TC-1 AND DETAIL HEREON

LEGEND:

-  GRAVEL BAG BARRIER
-  STORM DRAIN INLET PROTECTION
-  FLOW DIRECTION

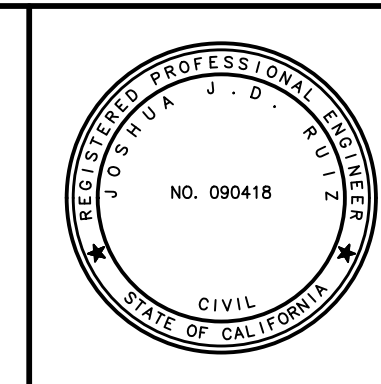


30' 0' 15' 30'
SCALE: 1" = 30'

PC NO. P01XXXXX
DP NO.



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NO. 090418
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

JOSHUA J.D. RUIZ RCE NO.: 090418
DESIGNED: XX DRAWN: XX CHECKED: JR
RECOMMENDED:
RECOMMENDED FOR CONSTRUCTION:
RCE NO.:

DATE

PRECISE GRADING PLAN - BLOCK B
4TH & MORTIMER
EROSION CONTROL PLAN
PUBLIC WORKS AGENCY
CITY OF SANTA ANA

PROJECT NO.
774-009
SHEET
9
OF 10