

**DESCRIPTION**

AN AGGREGATE AREA OR PAD LOCATED WHERE VEHICLES ENTER AND LEAVE A CONSTRUCTION SITE.

PURPOSE TO PROVIDE AN AREA WHERE VEHICLES CAN REMOVE MUD AND SEDIMENT FROM THEIR TIRES PRIOR TO DRIVING ON PUBLIC STREETS. IF USED PROPERLY, IT REDUCES THE REQUIREMENT TO REMOVE SEDIMENT FROM PUBLIC STREETS, DIRECTS THE MAJORITY OF TRAFFIC TO A SINGLE LOCATION, AND PROVIDES PROTECTION FOR OTHER BEST MANAGEMENT PRACTICES ON SITE THROUGH TRAFFIC CONTROL.

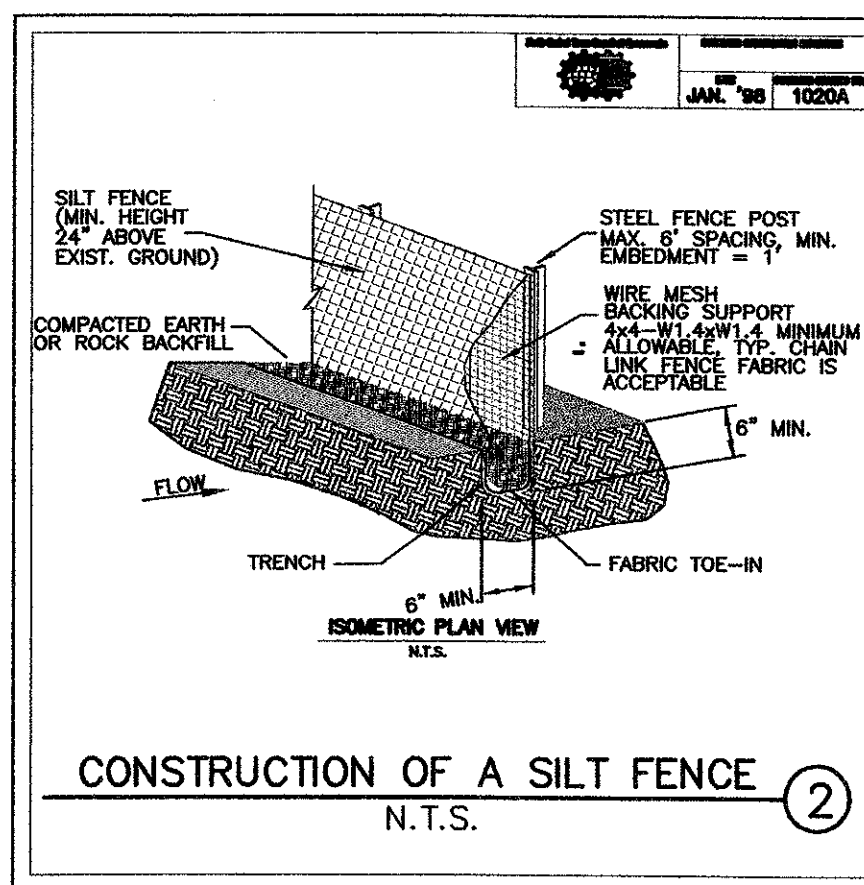
APPLICATIONS USE WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD OR AN OFF-SITE PAVED SURFACE. PRIMARY INSTALLATIONS INCLUDE EXITS FOR CONTROLLED ACCESS, TRUCK HAUL ROUES, AND BORROW/SPOIL AREAS.

LIMITATIONS SELECTION OF THE STONE CONSTRUCTION EXIT/ENTRANCE LOCATION IS CRITICAL, SINCE TO BE EFFECTIVE ALL TRAFFIC MUST USE THE AREA(S) TO EXIT A SITE. THE DEVICE IS NOT SUITABLE FOR USE ON LONG, LINEAR PROJECTS UNLESS THERE ARE DESIGNATED POINTS FOR CONTROLLED ACCESS. CONTRACTORS SHALL CLEAN-UP EXCESSIVE STONE FROM EXISTING PAVED STREETS DURING THE CONSTRUCTION PROCESS.

DESIGN CRITERIA A. MINIMUM PAD DIMENSIONS: WIDTH = 15 FEET OR TOTAL WIDTH OF VEHICLE ACCESS, WHICHEVER IS GREATER. LENGTH = 50 FEET (RESIDENTIAL LOTS USE 20') DEPTH = 6 INCHES B. GRADE: AVOID GRADES STEEPER THAN 5% AND GRADE TO DRAIN BACK ON TO THE SITE OR TO ANOTHER BEST MANAGEMENT PRACTICE TO CONTROL OFF-SITE SEDIMENTATION. C. LOCATION: LOCATE THE CONSTRUCTION ENTRANCE/EXIT TO LIMIT THE AMOUNT OF SEDIMENT THAT LEAVES THE CONSTRUCTION SITE AND TO PROVIDE FOR MAXIMUM USE BY VEHICLES LEAVING THE SITE. DO NOT PLACE ALONG CURVES IN THE PUBLIC ROADWAY. D. FILTER FABRIC: SHALL BE USED FOR INSTALLATIONS WITH A CONSTRUCTION PERIOD OF MORE THAN 6 MONTHS, WHERE HEAVY TRUCK TRAFFIC IS ANTICIPATED DAILY, OR VERY WEAK SUB-GRADE SOILS ARE PRESENT.

MATERIAL SPECIFICATIONS A. AGGREGATE - NATURAL STONE OR RE-CYCLED CONCRETE MEETING THE GRADATION REQUIREMENTS OF NCTCOG SPECIFICATION ITEM 2.1.8 (d). [3"-4" DIAMETER] B. FILTER STONE - NCTCOG SPECIFICATION 2.23.3.

MAINTENANCE REQUIREMENTS INSPECTIONS SHOULD BE MADE WEEKLY AND AFTER MAJOR RAIN EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN THE STONES OR MUD IS BEING TRACKED ONTO THE PUBLIC ROADWAY THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASHDOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BEST MANAGEMENT PRACTICE TO CONTROL OFF-SITE SEDIMENTATION. PERIODIC RE-GRADING OR THE ADDITION OF NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFICIENCY OF THE INSTALLATION.



**STANDARDS FOR SILT FENCE**

DESCRIPTION A TEMPORARY SEDIMENT BARRIER CONSISTING OF FILTER FABRIC STRETCHED BETWEEN AND ATTACHED TO METAL OR WOODEN POSTS, WITH THE BOTTOM OF THE FABRIC FIRMLY EMBEDDED IN THE SOIL. AT INSTALLATIONS DRAINING LARGER AREAS, THE FILTER FABRIC WILL BE ATTACHED TO A HOG WIRE SUPPORT THAT IS ATTACHED TO THE FENCE POSTS.

PURPOSE TO SLOW THE FLOW OF SEDIMENT LADEN WATER FROM SMALL DISTURBED AREAS TO ALLOW SEDIMENTATION TO OCCUR AND TO FILTER OUT LARGE SEDIMENT PARTICLES AS THE WATER FLOWS THROUGH THE FILTER FABRIC.

APPLICATIONS SILT FENCE IS NORMALLY USED AS A PERIMETER CONTROL IMMEDIATELY DOWNSTREAM OF SMALL DISTURBED AREAS. IT CAN ALSO BE USED AS A FLOW DIVERSION FOR VERY SMALL DRAINAGE AREAS, BUT DOES NOT FUNCTION AS WELL AS A NORMAL DIVERSION CHANNEL AND USUALLY MUCH MORE EXPENSIVE.

LIMITATIONS DO NOT INSTALL FENCES ACROSS CHANNELS, DITCHES, STREAMS, PIPE OUTLETS, OR AREAS OF CONCENTRATED WATER FLOW. SILT FENCE LOCATION CAN LIMIT CONSTRUCTION VEHICLE ACCESS SO THE LOCATION SHOULD BE WELL PLANNED TO PREVENT OBSTRUCTIONS. WATER WILL POND BEHIND THE SILT FENCE RESULTING IN LOCALIZED FLOODING DURING MAJOR RAIN EVENTS.

DESIGN CRITERIA PLACE SILT FENCE ALONG PERIMETER OF SITE WHERE DISTURBED AREA SHEET RUNOFF MUST BE CONTROLLED. LIMIT THE AREA TO 0.25 ACRES PER 100 LINEAR FEET OF FENCE. PROVIDE HOG WIRE SUPPORT BACKING WHENEVER THE DRAINAGE AREA EXCEEDS 0.10 ACRES PER 100 LINEAR FEET OF FENCE. MAXIMUM POST SPACING SHALL NOT EXCEED 8 FEET. STONE OVERFLOW STRUCTURES OR OTHER OUTLET DEVICE SHALL BE INSTALLED AT ALL LOW POINTS ALONG THE FENCE OR EVERY 300 FEET IF THERE IS NO APPARENT LOW POINT.

MATERIAL SPECIFICATIONS A. FILTER FABRIC - NCTCOG SPECIFICATION 2.23.4 B. WASHED STONE - NCTCOG SPECIFICATION 2.1.8.(a). C. HOG WIRE - NCTCOG SPECIFICATION 2.8.2.(b)(1). D. FENCE POSTS - NCTCOG SPECIFICATION 2.8.2.(b) FOR STEEL

MAINTENANCE REQUIREMENTS SILT FENCE SHOULD BE INSPECTED WEEKLY AND AFTER MAJOR RAINFALL EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. REMOVE SEDIMENT FROM THE STORAGE AREA WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-HALF THE STORAGE DEPTH. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE. CLEAN THE FILTER STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILT-UP WILL REQUIRE FILTER STONE REPLACEMENT.

**GENERAL NOTES**

- CONTRACTOR SHALL RETAIN ALL FLOATABLE AND WIND BLOWN MATERIALS ONSITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFFSITE.
- CONTRACTOR SHALL LIMIT MATERIALS USED IN THE SUBGRADE STABILIZATION PROCESS TO A ONE DAY'S SUPPLY. ALL RUNOFF FROM THESE MATERIALS SHALL BE CONTAINED AS REQUIRED TO PREVENT CONTAMINATION OF OFFSITE FACILITIES.
- THE CONTRACTOR SHALL CONSTRUCT A PIT AS NEEDED FOR TEMPORARY ON-SITE STORAGE OF CONCRETE WASTE FROM MIXING DRUMS AND CHUTES.
- INSTALL A LIQUID TIGHT BERMED AREA (LINER REQUIRED), OR OTHER SPILL PROTECTION MEASURES PER CITY OF KELLER, FIRE CODE REQUIREMENTS, FOR ANY TEMPORARY FUEL TANKS PLACED ONSITE DURING CONSTRUCTION.
- INSPECT POLLUTION CONTROL MEASURES EVERY TWO WEEKS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1-INCH OR GREATER. REPAIR OR REPLACE DAMAGED MEASURES TO RETAIN SEDIMENT AND OTHER POLLUTANTS ONSITE. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS.
- PERMANENTLY STABILIZE EXPOSED SOIL, WITHIN AND ADJACENT TO THE SITE, THAT IS DISTURBED BY VEHICLES, GRADING, AND OTHER CONSTRUCTION ACTIVITIES. STABILIZATION IS OBTAINED WHEN THE SOIL IS COVERED BY A COMBINATION OF STRUCTURES, PAVING, AND PERENNIAL VEGETATION.

**EROSION CONTROL SEQUENCING**

- THE EROSION CONTROL CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN IN THE PLAN AND CONSTRUCT THE STABILIZED CONSTRUCTION ENTRANCES AT THE LOCATION(S).
- THE GRADING CONTRACTOR SHALL STRIP, CLEAR AND MASS GRADE THE SITE. THE GRADING CONTRACTOR IS TO ASSUME RESPONSIBILITY OF THE EROSION CONTROL DEVICES DURING GRADING OPERATIONS AND ENSURE THAT THESE DEVICES REMAIN IN GOOD WORKING ORDER. AFTER GRADING IS COMPLETE, THE GRADING CONTRACTOR SHALL INSPECT THE DEVICES TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
- BEGIN UTILITY INSTALLATION. THE UTILITY CONTRACTOR SHALL ASSUME RESPONSIBILITY OF THE EROSION CONTROL DEVICES DURING UTILITY CONSTRUCTION AND ENSURE THAT THESE DEVICES REMAIN IN GOOD WORKING ORDER. AFTER THE STORM DRAIN INLET AND WALLS ARE ERECTED, THE CONTRACTOR SHALL PROTECT THE INLET FROM SILTATION BY SURROUNDING IT WITH SILT FENCE. AFTER THIS PHASE OF UTILITY INSTALLATION IS COMPLETE, THE UTILITY CONTRACTOR SHALL INSPECT THE DEVICES PRIOR TO MOVING OFF SITE TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
- BEGIN PAVING CONSTRUCTION. THE PAVING CONTRACTOR SHALL ASSUME RESPONSIBILITY OF THE EROSION CONTROL DEVICES DURING PAVING CONSTRUCTION AND ENSURE THAT THESE DEVICES REMAIN IN GOOD WORKING ORDER. AFTER PAVING CONSTRUCTION IS COMPLETE, THE PARKWAYS SHALL BE BACKFILLED TO A FINISHED SLOPE OF 1/4" PER FOOT. THE PAVING CONTRACTOR SHALL INSPECT THE DEVICES PRIOR TO MOVING OFF SITE TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
- THE UTILITY CONTRACTOR SHALL REMOBLIZE AND FINISH THE STORM DRAIN INLET CONSTRUCTION BY COMPLETING THE ERECTION OF THE WALLS AND TOP. AFTER PUBLIC UTILITY CONSTRUCTION IS COMPLETE, THE UTILITY CONTRACTOR SHALL INSPECT THE DEVICES TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
- THE EROSION CONTROL CONTRACTOR SHALL INSTALL THE CURB INLET PROTECTION DETAILED ON THIS PLAN, AND SHALL INSTALL SILT FENCE ALONG STREET RIGHTS-OF-WAY.
- BEGIN FRANCHISE UTILITY CONSTRUCTION. EACH FRANCHISE UTILITY CONTRACTOR SHALL ASSUME RESPONSIBILITY OF THE EROSION CONTROL DEVICES DURING FRANCHISE UTILITY CONSTRUCTION AND ENSURE THAT THESE DEVICES REMAIN IN GOOD WORKING ORDER. AFTER FRANCHISE UTILITY CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL INSPECT THE DEVICES TO ENSURE THAT THEY REMAIN IN GOOD WORKING ORDER.
- AFTER CONSTRUCTION IS COMPLETE, THE EROSION CONTROL CONTRACTOR SHALL SEED ALL DISTURBED AREAS. WHEN SUFFICIENT GRASS GROWTH HAS BEEN ESTABLISHED, ALL SILT FENCE AND OTHER EROSION CONTROL DEVICES SHALL BE REMOVED FROM THE SITE.

**TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT**

**CAUTION !!!**  
**EXISTING UTILITIES**

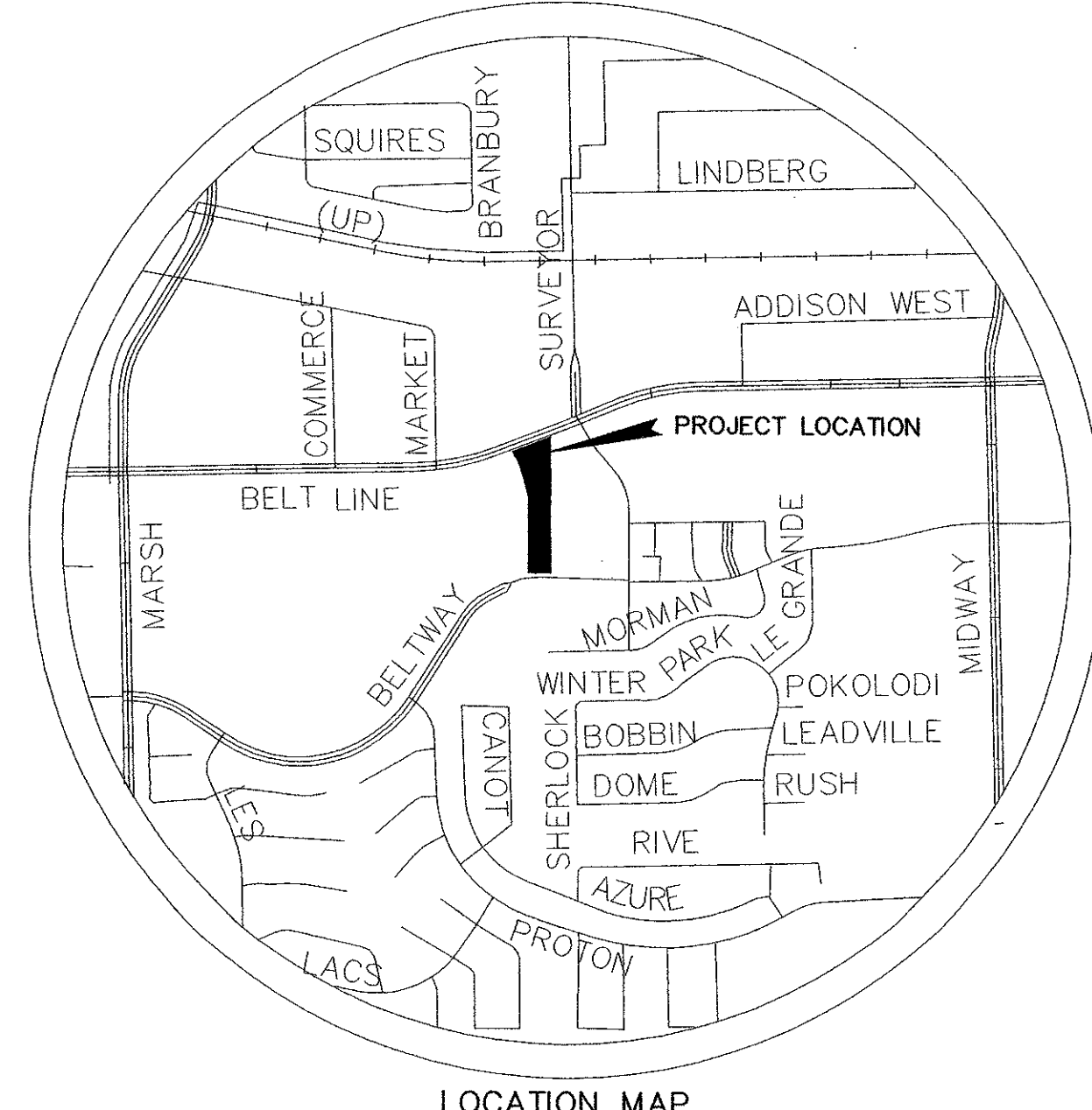
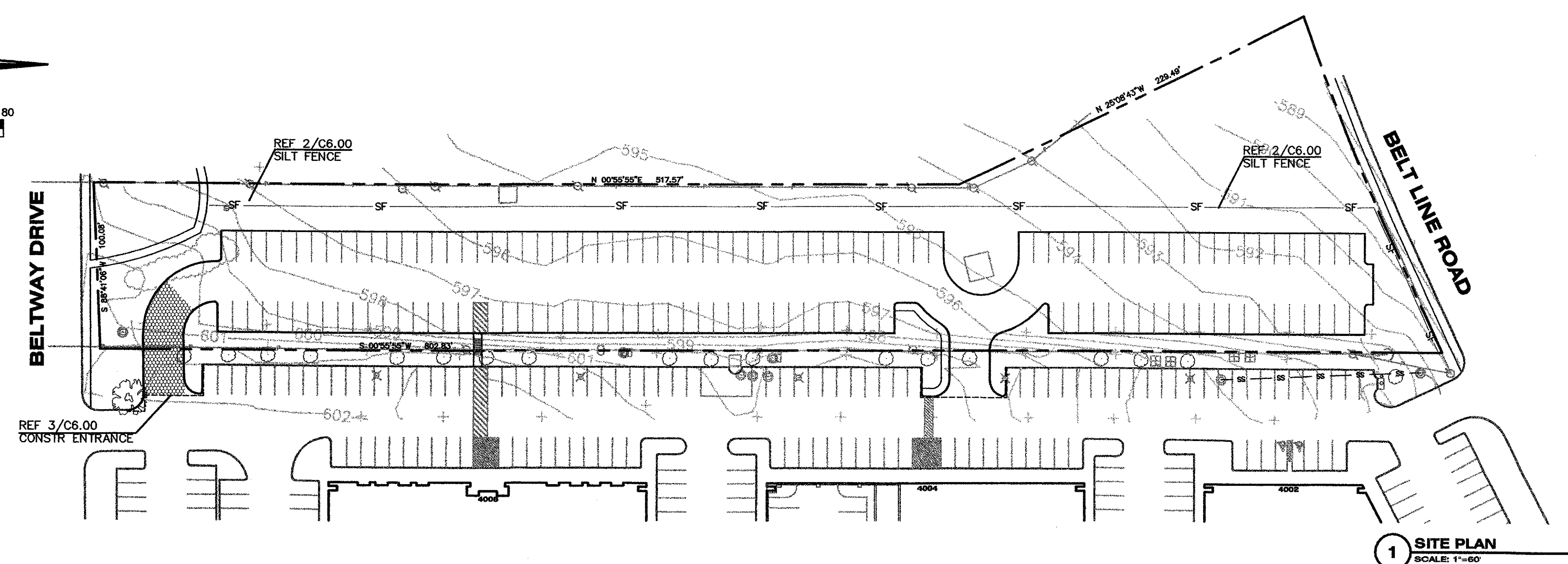
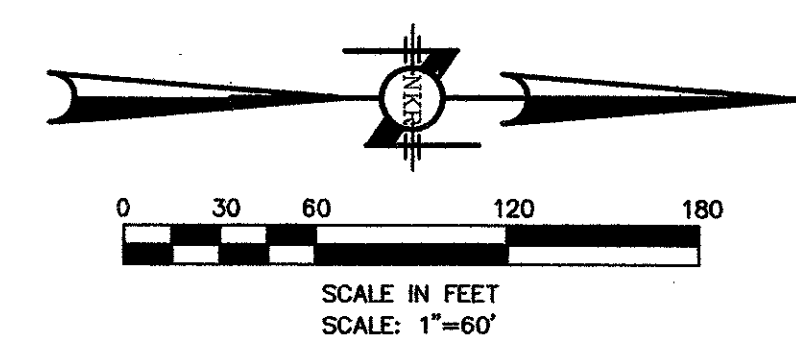
EXISTING PUBLIC AND FRANCHISE UTILITY LINE CROSSINGS IN THIS AREA. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING AND WORKING IN THIS AREA. EXISTING UTILITY CROSSINGS SHALL BE EXPOSED AND ALIGNMENTS VERIFIED PRIOR TO BEGINNING NEW UTILITY CONSTRUCTION. CONTRACTOR SHALL EMPLOY ANY NECESSARY METHOD OF EXCAVATION, INCLUDING HAND EXCAVATION AND/OR "AIR-VAC", WHICH MAY BE JUSTIFIED TO INSURE NO DAMAGE TO THESE FACILITIES. CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS WHILE WORKING IN THIS AREA.

**PROJECT CONTACTS**

**OWNER:**  
WINDSOR MANAGEMENT  
4002 BELT LINE RD, SUITE 100  
ADDISON, TEXAS 75001  
MR. JIM MORGAN  
972-980-6836

NOTE: REFERENCE C1.0 FOR GENERAL NOTES

THIS EROSION CONTROL PLAN APPLIES TO THE FORUMS WEST PARKING LOT IMPROVEMENTS PROJECT LOCATED AT 4002 BELT LINE RD, TOWN OF ADDISON, TEXAS. THE CONSTRUCTION ACTIVITIES INCLUDE CLEARING, EXCAVATION, GRADING, PAVING, AND LANDSCAPING IMPROVEMENTS FOR APPROXIMATELY 1.5 ACRES OF LAND.



DATE	9-3-04
DESCRIPTION	INC. ADA PARKING/DETAILS
REV.	

**NKR ENGINEERING GROUP, INC.**  
4004 BELT LINE RD  
SUITE 210  
ADDISON, TEXAS 75001  
PH: 972.818.6305  
FAX: 972.818.6306

**WEST PARKING LOT IMPROVEMENTS**  
FOR  
WINDSOR MANAGEMENT  
4002 BELT LINE ROAD, SUITE 100  
ADDISON, TEXAS 75001

STATE OF TEXAS  
THOMAS J. WANCHER  
67731

9/3/04

**PERMIT REVIEW SET**  
**EROSION CONTROL PLAN**

Issue Date: 08-20-04  
Project No.: 8402  
Drawn By: TJK  
Reviewed By: TJK  
SHEET NUMBER:

**C6.0**