

GENERAL STAGING NOTES:

1. ALL CONSTRUCTION SITE LOCATIONS SHALL REQUIRE A PRE-CONSTRUCTION ACTION MEETING PRIOR TO THE INSTALLATION OF ANY/ALL EROSION CONTROL MEASURES OR DISTURBANCE OF EXISTING GROUND. THIS MEETING SHALL INCLUDE THE CONTRACTOR, ENGINEER, NYCDEP, AND ANY AGENCY PERSONNEL HAVING JURISDICTION.
2. LOCATION FOR FENCING AND LIMITS OF STAGING AREA SHOWN IN PLAN, BUT EXACT LOCATIONS MAY BE DEFINED IN THE FIELD, BY THE ENGINEER, DURING THE MOBILIZATION STAGE.
3. SIGNS SHALL CONFORM TO THE OFFICIAL COMPILATION CODE RULES AND REGULATIONS OF NEW YORK.
4. ALL CONSTRUCTION RELATED ACTIVITY SHALL BE CONTAINED WITHIN THE DESIGNATED CONSTRUCTION/STAGING AREA.
5. CONTRACTOR SHALL RE-GRADE EACH WORK SITE AS NECESSARY TO PERFORM THE REQUIRED WORK.
6. TEMPORARY ACCESS TRACKS, TEMPORARY HARD SURFACES (FOR SECURITY/CONSTRUCTION COMPOUNDS), SECURITY FENCING, AND CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AND REMOVED AS PER DETAILED SPECIFICATIONS 02200 - MOBILIZATION AND SURFACE SITE PREPARATION, 02953 - SITE RESTORATION, AND THE CONSTRUCTION ROAD STABILIZATION SECTION OF THE "NEW YORK STANDARDS AND SPECIFICATION FOR EROSION AND SEDIMENT CONTROL".
7. ALL GATES FOR ALL WORK SITES SHALL HAVE PADLOCKS THAT ARE KEYED ALIKE. LATCHING DEVICES SHALL BE PROVIDED TO HOLD GATES IN OPEN POSITION.
8. ALL WATERWAYS SHALL BE PROTECTED FROM SITE SURFACE RUNOFF AS PER THE SPECIFICATIONS. SITE RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO SURFACE WATER BODIES WITHOUT APPROPRIATE FILTERS AND/OR SEDIMENT BASINS.
9. SEDIMENT AND DEBRIS REMOVED FROM WITHIN THE AQUEDUCT WILL BE TEMPORARILY STORED AND TESTED (ON-SITE) IN SPECIAL METAL CONTAINERS. THE LOCATIONS FOR THE SEDIMENT STORAGE CONTAINERS HAVE BEEN PRE-DETERMINED AND ARE SHOWN IN PLAN.
10. SOIL EXCAVATED DURING THE INSPECTION AND REHABILITATION OF EXISTING SHAFTS SHALL BE TEMPORARILY STOCKPILED (ON-SITE). STOCKPILES SHALL BE LOCATED IN AREAS AS SHOWN IN PLAN, UNDERLINED AND COVERED WITH 10-MILS THICK PVC MATERIAL (OR APPROVED EQUIVALENT).
11. ALL DUST AND TRAFFICABLE MUD SHALL BE MINIMIZED AS PER DETAILED SPECIFICATION 02371G - DUST, SOIL EROSION AND SEDIMENT CONTROL AND THE DUST CONTROL SECTION OF THE "NEW YORK STANDARDS AND SPECIFICATION FOR EROSION AND SEDIMENT CONTROL".
12. HAULAGE ON OR OFF-SITE SHALL ONLY BE UNDERTAKEN DURING NORMAL WORKING HOURS.
13. PARKING OF CONSTRUCTION VEHICLES AND EQUIPMENT ON EXISTING ROADS AND PARKING FACILITIES SHALL BE COORDINATED WITH THE DEP PRIOR TO THE START OF CONSTRUCTION.
14. EMERGENCY SPILL PROTECTION AND CLEAN-UP EQUIPMENT SHALL BE PROVIDED AS PER SPECIFICATION.
15. CONTRACTOR SHALL AVOID SUBSURFACE, SURFACE AND OVERHEAD UTILITIES IN THE FIELD.
16. CONTRACTOR SHALL INSPECT THE EXISTING ELECTRICAL FACILITIES AND DETERMINE IF THEY ARE ADEQUATE TO SUPPORT THE DEMAND FROM EQUIPMENT AND PROPOSED OPERATIONS.
17. UNLESS OTHERWISE INDICATED IN THE DRAWINGS OR SPECIFICATIONS, THE SITES SHALL BE FULLY REINSTATED TO THE ORIGINAL CONDITIONS ON COMPLETION OF WORKS AS PER DETAILED SPECIFICATION 02953 - SITE RESTORATION.

SEDIMENT AND EROSION CONTROL NOTES:

1. DUE TO THE NATURE OF THE WORK REQUIRED BY THIS CONTRACT, IT IS ANTICIPATED THAT THE LOCATION AND NATURE OF EROSION AND SEDIMENT CONTROL MEASURES WILL BE ADJUSTED ON SEVERAL OCCASIONS TO REFLECT THE CURRENT PHASE OF WORK. THE CONSTRUCTION SCHEDULE ADOPTED BY THE CONTRACTOR WILL IMPACT THE PLACEMENT AND NEED FOR SPECIFIC DEVICES REQUIRED FOR THE CONTROL OF EROSION.
2. THE LOCATION AND EXTENT OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REVISED AT EACH PHASE OF CONSTRUCTION. IF THIS RESULTS IN A CHANGE OF EITHER THE QUANTITY OR DIRECTION OF SURFACE RUNOFF FROM THE CONSTRUCTION AREAS, CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE ENGINEER FOR DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE ANY CLEARING, GRUBBING AND/OR CONSTRUCTION ACTIVITIES BEGIN.
4. CLEARING SHALL BE LIMITED TO AREAS REQUIRED FOR IMMEDIATE CONSTRUCTION ACTIVITIES. MASS CLEARING AND GRADING OF SITE SHALL BE AVOIDED.
5. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, AND PRIOR TO ALL FORECASTED RUNOFF-PRODUCING RAINFALL OF 1/2" OR MORE, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY AS REQUIRED TO MAINTAIN PERFORMANCE OF THE MEASURE.
6. REMOVED SEDIMENT SHALL BE DISPOSED OF IN SUCH A MANNER AS TO ENSURE FURTHER SEDIMENT TRANSPORT DOES NOT OCCUR.
7. ALL WATERWAYS SHALL BE PROTECTED FROM SITE SURFACE RUNOFF AS PER THE SPECIFICATIONS. NO SITE RUNOFF WILL BE ALLOWED TO DISCHARGE DIRECTLY INTO SURFACE WATER BODIES WITHOUT APPROPRIATE FILTERS AND/OR SEDIMENT BASINS.
8. SEED BARE SOIL WITHIN 15 DAYS OF EXPOSURE, UNLESS CONSTRUCTION SHALL RESUME WITHIN 30 DAYS. IF CONSTRUCTION IS SUSPENDED, OR SECTIONS COMPLETED, AREAS SHOULD BE SEEDED OR MULCHED IMMEDIATELY. TEMPORARY SEEDING SHALL BE AS PER THE "TEMPORARY VEGETATION SEED MIXTURES" AS INDICATED ON THIS DRAWING.
9. ALL AREAS SHALL BE FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE SEEDING SCHEDULE, AND RE-SEEDED AS NECESSARY TO ESTABLISH AND MAINTAIN VIGOROUS, DENSE VEGETATION.
10. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVELED PUBLIC STREETS, PARKING LOTS AND PRIVATE DRIVEWAYS. ALL MATERIALS DEPOSITED ONTO PUBLIC STREETS, PARKING LOTS AND PRIVATE DRIVEWAYS SHALL BE REMOVED IMMEDIATELY. PROPER PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) ARE REMOVED SO THEY DO NOT ENTER CATCH BASINS, STORM SEWERS, OR COMBINED SEWERS.
11. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "NEW YORK STATE STANDARDS AND SPECIFICATION FOR EROSION AND SEDIMENT CONTROL" PRODUCED BY EMPIRE STATE CHAPTER, SOIL AND WATER CONSERVATION SOCIETY, P.O. BOX 7172, SYRACUSE, NY 13621-7172.

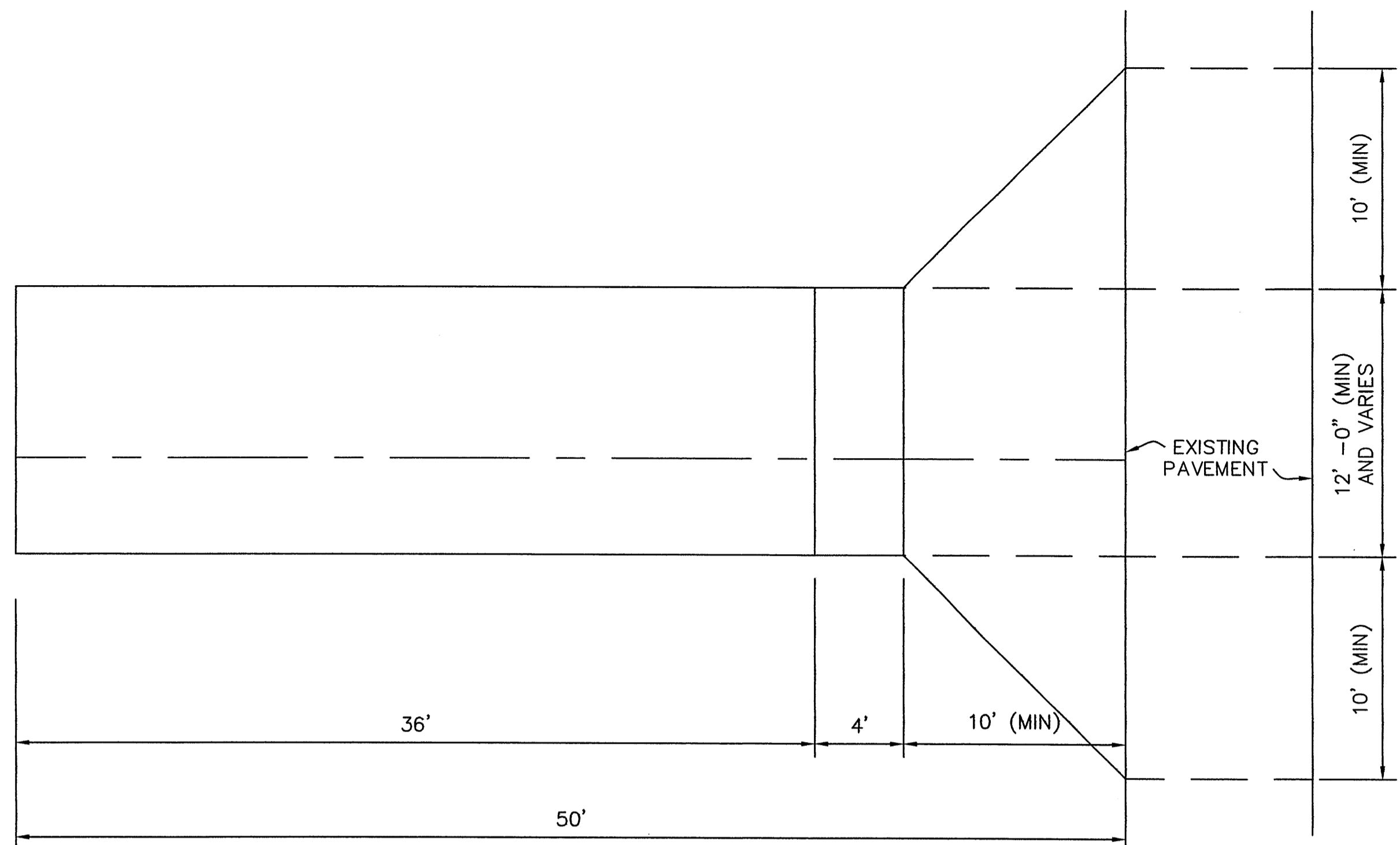
TEMPORARY VEGETATION SEED MIXTURES:

NAME	PLANTING SEASON	SEED PER ACRE
RYEGRASS	SPRING/SUMMER/EARLY FALL	30 LB.
'ARCOSTOCK' WINTER RYE	LATE FALL/EARLY WINTER	100 LB.

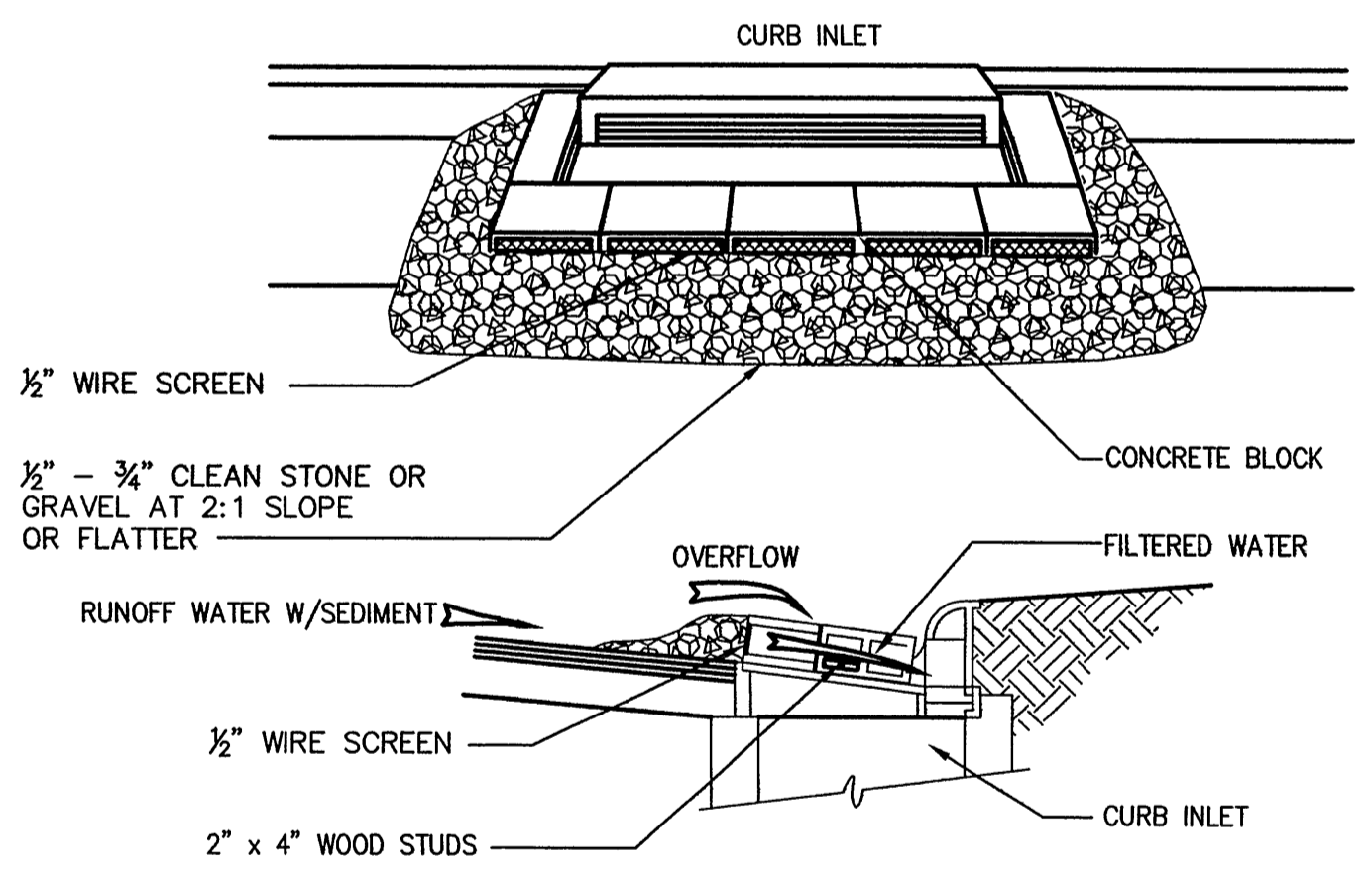


PRIVILEGED AND CONFIDENTIAL

IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY MANNER PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL, AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.		DESIGNED <u>MS</u> DRAWN <u>JD</u> CHECKED <u>DR</u> SECT. CHIEF <u>JS</u> PROJ. ENGR. <u>ASN</u>	SCALE NONE	_____ P.E.	 A JOINT VENTURE Environmental Engineers & Scientists	APPROVED FOR THE CITY OF NEW YORK P.E. EXECUTIVE PROJECT MANAGER P.E. CHIEF, DIVISION OF WATERSHED FACILITIES DESIGN	 CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENGINEERING DESIGN & CONSTRUCTION DIVISION OF WATERSHED FACILITIES DESIGN NEW CROTON AQUEDUCT REHABILITATION	CONTRACT CRO-334G-STRUCTURES & EQUIPMENT EROSION CONTROL GENERAL NOTES	DATE FEBRUARY 2008 SHEET 42 OF 284 DWG. NO. C44
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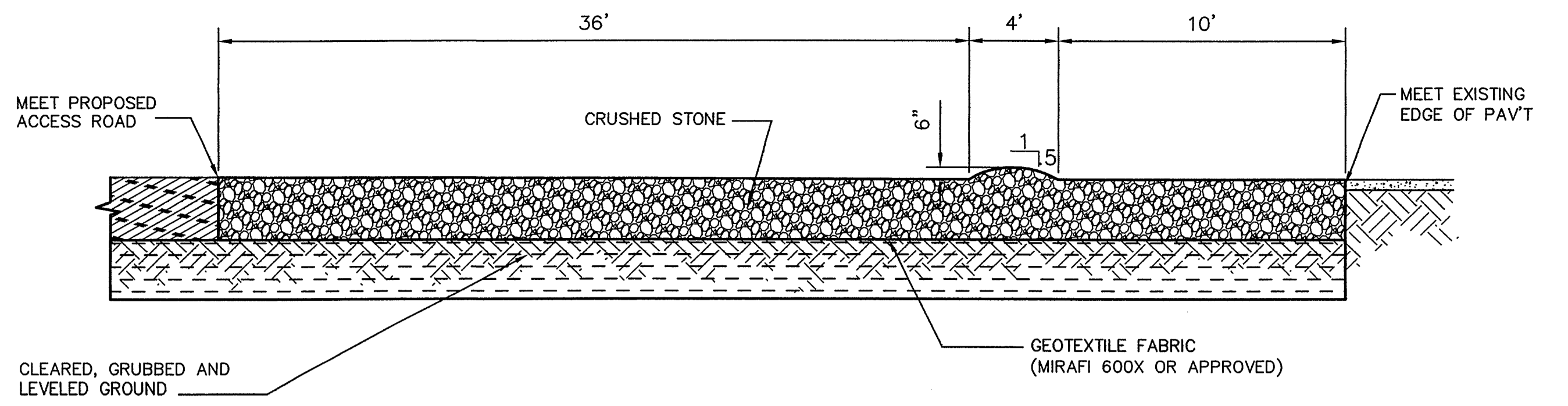
TYPICAL CONSTRUCTION ENTRANCE PLAN
NTS



CURB INLET SEDIMENT PROTECTION (TYP)
NTS

NOTES:

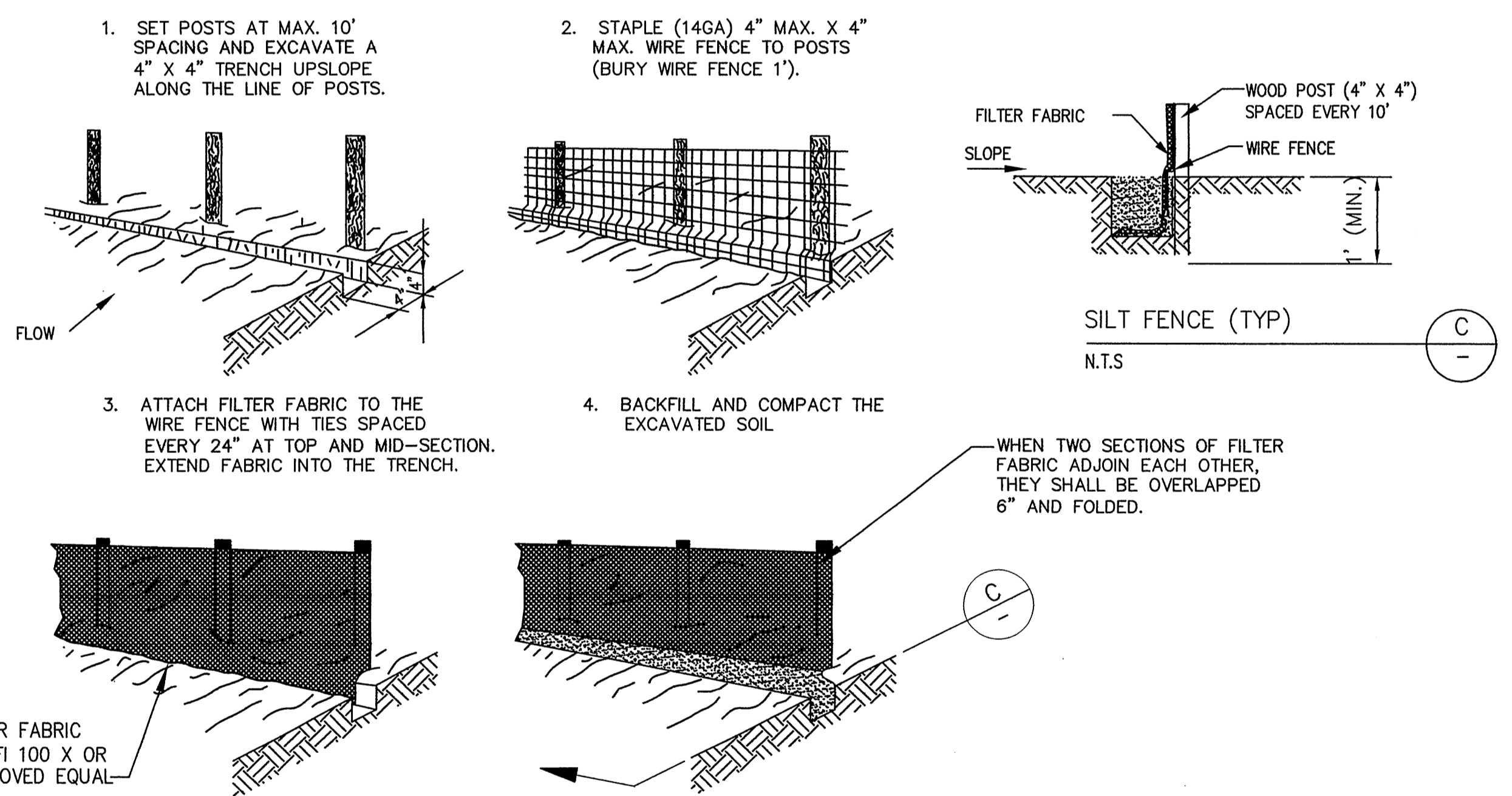
1. CURB INLET SEDIMENT PROTECTION SHALL BE INSPECTED FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, AND PRIOR TO ALL FORECASTED RUNOFF-PRODUCING RAINFALL OF 1/2" OR MORE, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. CURB INLET PROTECTION SHALL BE REPAIRED OR REPLACED IMMEDIATELY AS REQUIRED TO MAINTAIN PERFORMANCE.
2. ALL SEDIMENT WHICH MAKES IT WAY ONTO EXISTING STREETS, PRIVATE DRIVEWAYS AND/OR PARKING LOTS SHALL BE REMOVED IMMEDIATELY.
3. CONSTRUCTION SHALL CONFORM TO THE STORM DRAIN INLET PROTECTION OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".



TYPICAL CONSTRUCTION ENTRANCE SECTION
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NOTES:

1. CONSTRUCTION ENTRANCE SHALL BE INSPECTED FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, AND PRIOR TO ALL FORECASTED RUNOFF-PRODUCING RAINFALL OF 1/2" OR MORE, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ADDITIONAL AGGREGATE SHALL BE INSTALLED IMMEDIATELY AS REQUIRED, ALONG WITH ANY ADDITIONAL REPAIRS THAT MAINTAIN PERFORMANCE.
2. ALL SEDIMENT WHICH MAKES IT WAY ONTO EXISTING STREETS, PRIVATE DRIVEWAYS AND/OR PARKING LOTS SHALL BE REMOVED IMMEDIATELY.
3. CONSTRUCTION SHALL CONFORM TO STABILIZED CONSTRUCTION ENTRANCE SECTION OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".



NOTES:

1. SILT FENCE SHALL BE INSPECTED FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, AND PRIOR TO ALL FORECASTED RUNOFF-PRODUCING RAINFALL OF 1/2" OR MORE, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. SILT FENCE SHALL BE REPAIRED OR REPLACED IMMEDIATELY AS REQUIRED TO MAINTAIN PERFORMANCE.
2. CONSTRUCTION SHALL CONFORM TO THE SILT FENCE SECTION OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".

PB Parsons Brinckerhoff Quade & Douglas, Inc.

NO. _____ DATE _____ ISSUED FOR _____ BY _____		DESIGNED _____ MS _____ SCALE _____ DRAWN _____ JD _____ AS NOTED CHECKED _____ DR _____ SECT. CHIEF _____ JS _____ PROJ. ENGR. _____ ASN _____		WARNING: IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY MANNER PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.		 A JOINT VENTURE Environmental Engineers & Scientists		APPROVED FOR THE CITY OF NEW YORK P.E. EXECUTIVE PROJECT MANAGER P.E. CHIEF, DIVISION OF WATERSHED FACILITIES DESIGN		 CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENGINEERING DESIGN & CONSTRUCTION DIVISION OF WATERSHED FACILITIES DESIGN NEW CROTON AQUEDUCT REHABILITATION		CONTRACT CRO-334G-STRUCTURES & EQUIPMENT EROSION CONTROL TYPICAL DETAILS		DATE FEBRUARY 2008 SHEET 43 of 284 DWG. NO. C45	
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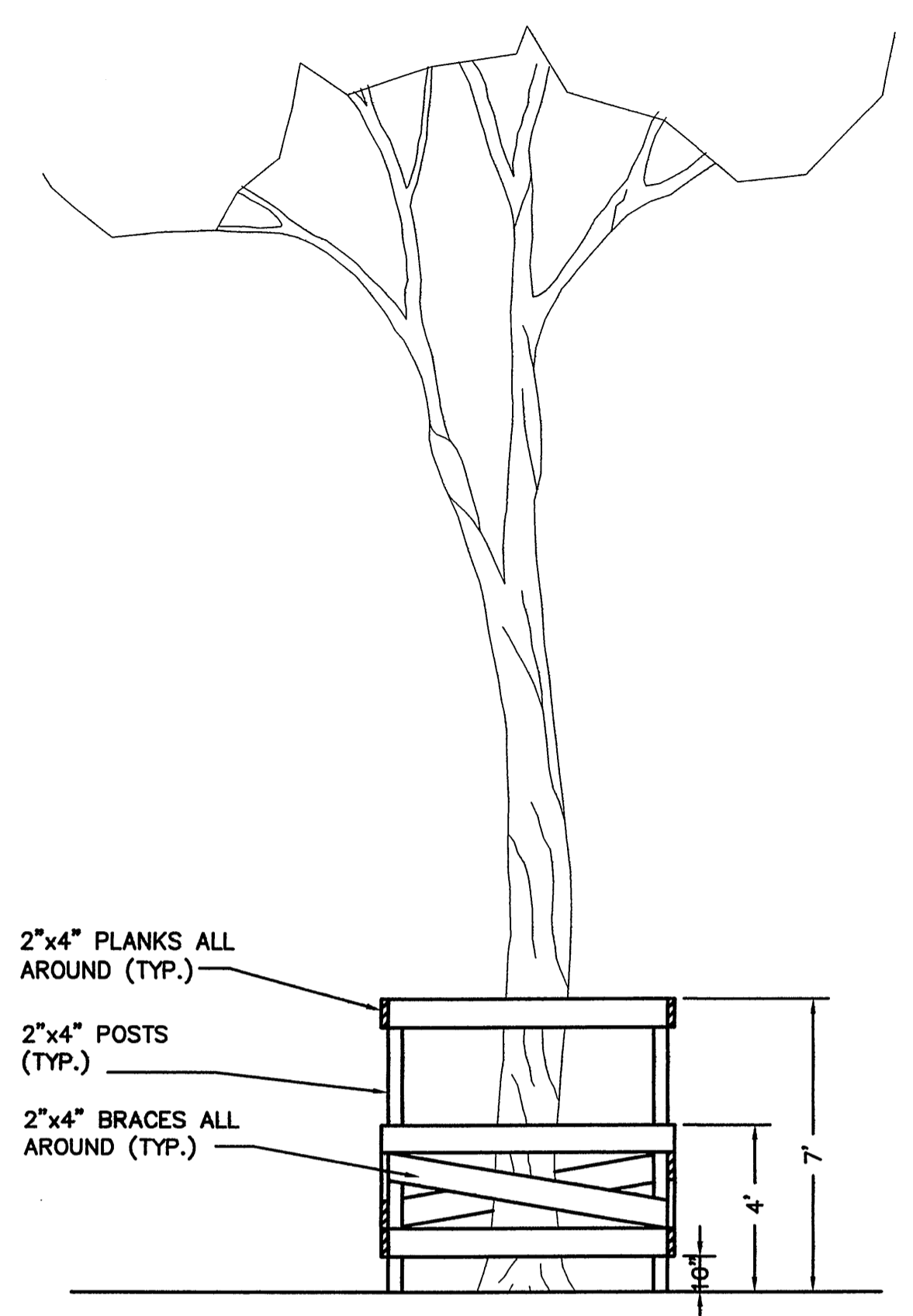
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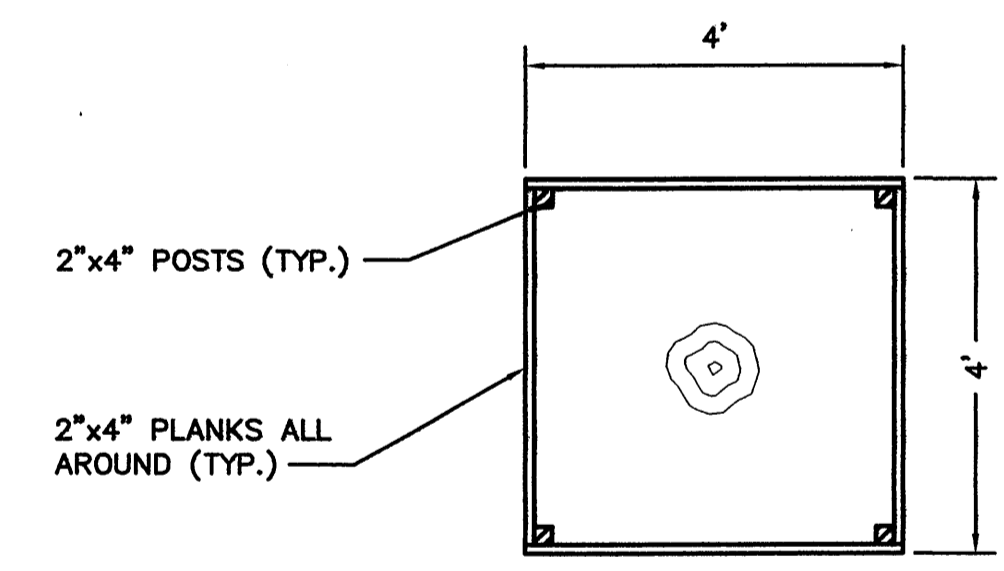
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NOTES:

1. SOIL COMPACTION, POLLUTION AND EROSION SHALL BE AVOIDED OR MINIMIZED AT ALL TIMES DURING THE COURSE OF THE PROJECT. SNOW FENCE (DPR STANDARD) WILL BE INSTALLED UNDER THE DRIP LINE OF ALL EXISTING TREES WITHIN THE ACTIVE WORK ZONE (EXCEPT THOSE TO BE REMOVED) TO PROTECT THE SOIL UNDER THE TREES' BRANCHES. OUTSIDE THE DRIP LINE, AREAS WILL BE DESIGNATED BY THE ENGINEER FOR DRIVING ROUTES THROUGH THE LANDSCAPE. ON SLOPING AREAS, EROSION CONTROL METHODS WILL BE USED TO PREVENT MOVEMENT OF SOIL, ESPECIALLY INTO STORM DRAINS. WHERE IT WILL NOT IMPACT ON TREES, EXISTING TOPSOIL MAY BE SCRAPPED OFF AND STORED IN PILES, TO BE REPLACED AT TIME OF RESTORATION. NO TREE PRUNING MAY BE PERFORMED EXCEPT BY A QUALIFIED TREE CARE PROFESSIONAL AND WITH THE PERMISSION OF THE PARKS DEPARTMENT. UNDER NO CIRCUMSTANCES MAY PETROLEUM PRODUCTS, CONCRETE WASH WATER, PAINT OR OTHER POLLUTANTS BE ALLOWED TO SEEP INTO THE LANDSCAPE OR INTO THE CITY DRAINAGE SYSTEM.
2. DAMAGE TO TREES, BOTH ABOVE AND BELOW GROUND, WILL BE REPAIRED OR REPLACED BY AN APPROVED TREE CARE PROFESSIONAL ACCORDING TO THE NYCDPR STANDARDS. TREES SEVERELY DAMAGED WILL BE REPLACED IN QUANTITY ACCORDING TO THE NYCDPR LATEST BASAL AREA CONVERSION CHART. BOTH TREES AND NEWLY SEEDED TURF AREAS SHALL BE CARED FOR AND WATERED BY THE CONTRACTOR AS OFTEN AS NECESSARY DURING THEIR FIRST GROWING YEAR TO ESTABLISH THEIR HEALTH AND VIGOR AFTER THE STRESS OF TRANSPLANTING/GERMINATION AND ALLOW THEM TO THRIVE IN THE FUTURE WITHOUT ADDITIONAL WATERING CARE. PLANTS NOT ESTABLISHED PROPERLY AFTER ONE YEAR WILL BE REPLACED AND ESTABLISHED AS MANY TIMES AS IS REQUIRED FOR SUCCESSFUL ESTABLISHMENT.

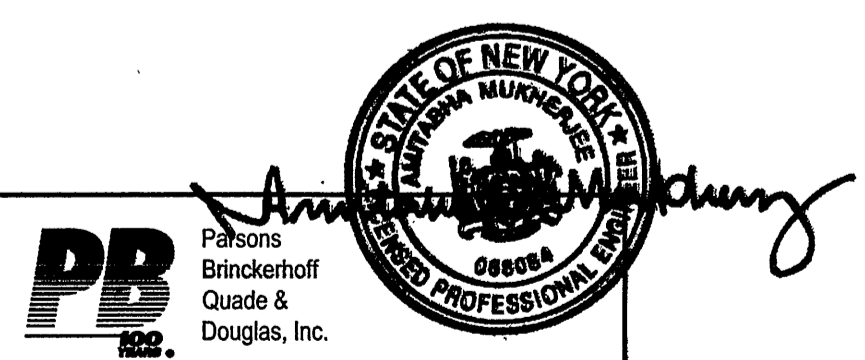


ELEVATION
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PLAN
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TREE PROTECTION DETAIL
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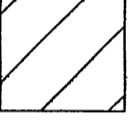
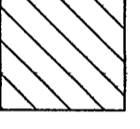

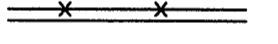
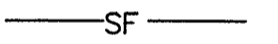
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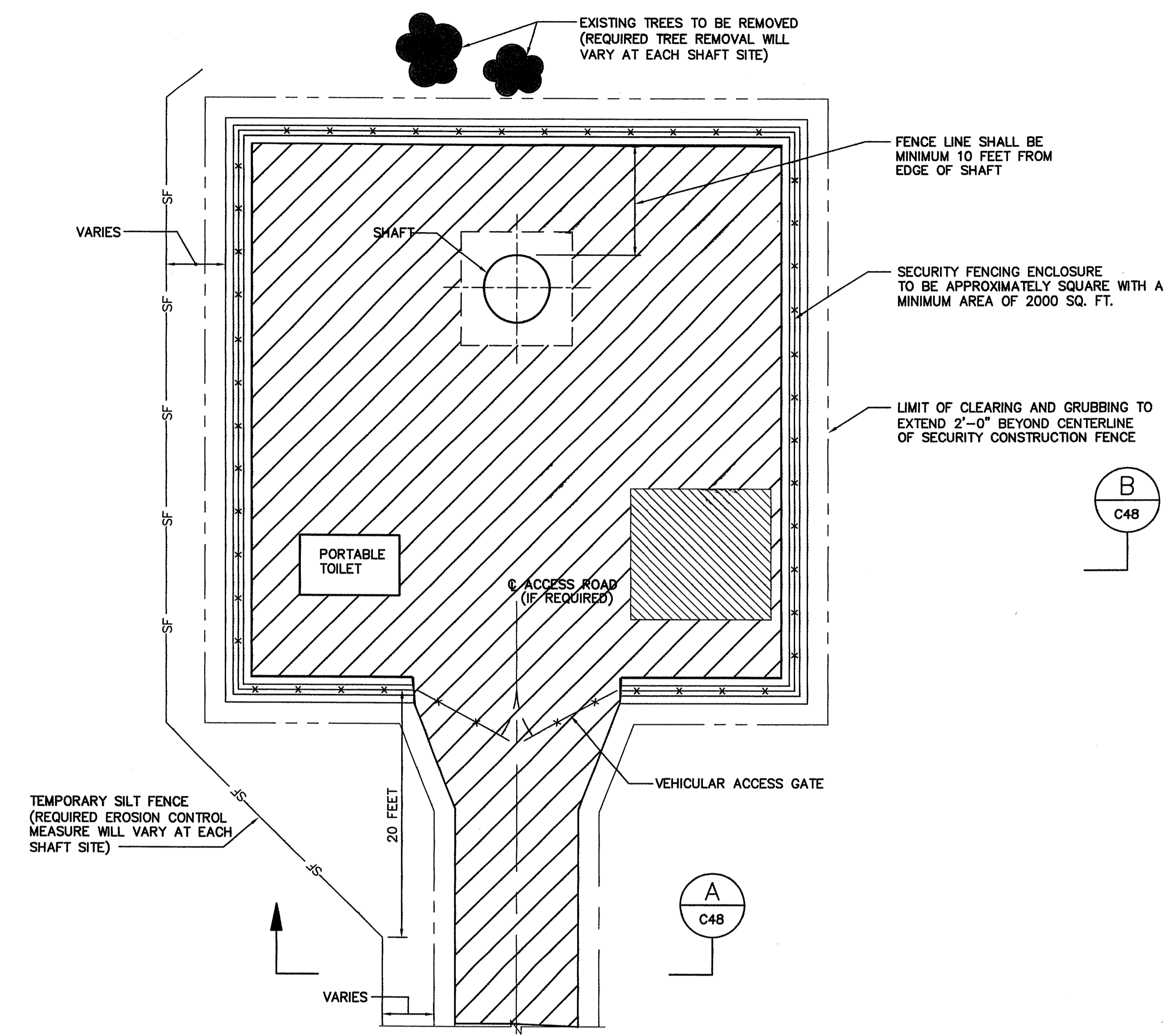
<p>WARNING IT IS A VIOLATION OF SECTION 2302.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</p>				<p>DESIGNED <u>MS</u> DRAWN <u>JD</u> CHECKED <u>DR</u> SECT.CHIEF <u>JS</u> PROJ.ENGR. <u>ASN</u></p>	<p>SCALE NONE</p>	<p>M&E Metcalf & Eddy of New York, Inc. A JOINT VENTURE HAZEN AND SAWYER Environmental Engineers & Scientists</p>	<p>APPROVED FOR THE CITY OF NEW YORK <i>Uma Parikh</i> P.E. EXECUTIVE PROJECT MANAGER <i>Paul D. Smith</i> P.E. CHIEF, DIVISION OF WATERSHED FACILITIES DESIGN</p>		<p>CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENGINEERING DESIGN & CONSTRUCTION DIVISION OF WATERSHED FACILITIES DESIGN NEW CROTON AQUEDUCT REHABILITATION</p>	<p>CONTRACT CRO-334G-STRUCTURES & EQUIPMENT TREE PROTECTION PLAN AND DETAIL</p>	<p>DATE FEBRUARY 2008 SHEET 44 OF 284 DWG. NO. C46</p>
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SEQUENCE OF WORK

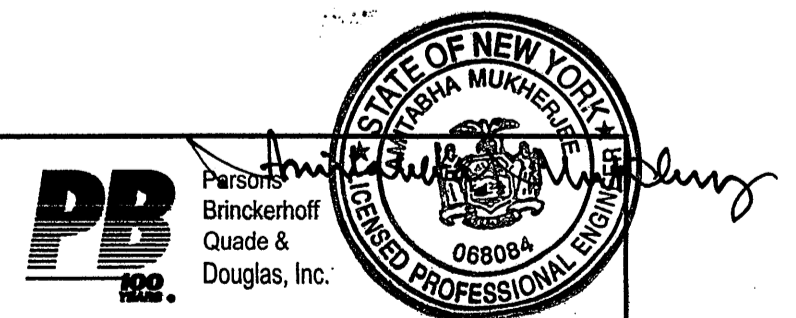
1. INSTALL ALL EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION AND SITE CLEARING. SEE EACH SHAFT PLAN FOR TYPE AND LOCATION.
2. CLEAR AND GRUB AREAS TO BE OVERLAID WITH COMPACTED GRADED GRAVEL SURFACE, CONSTRUCTION ACCESS TRACK SURFACE AND GRAVEL CONSTRUCTION ENTRANCE.
3. REMOVE TREES AS INDICATED ON THE PLAN. SHADED TREES SHALL BE REMOVED. PERFORM OVERHEAD CLEARANCE PRUNING AS REQUIRED, ALL OTHER TREES TO BE RETAINED AND UNDAMAGED.
4. INSTALL TEMPORARY CONSTRUCTION ACCESS TRACK, SECURITY/CONSTRUCTION COMPOUND AND GRAVEL CONSTRUCTION ENTRANCE.
5. WITHIN 15 DAYS OF COMPLETION AT EACH SHAFT SITE, THE MATERIALS USED FOR CONSTRUCTION OF THE ACCESS TRACK AND CONSTRUCTION ENTRANCE SHALL BE REMOVED, AND LEGALLY DISPOSED OF OFF-SITE. THE ENTIRE CLEARED CORRIDOR SHALL BE COVERED WITH A 6-INCH THICK LAYER OF TOPSOIL AND RE-SEEDED WITH GRASS.
6. TEMPORARY CONSTRUCTION ENTRANCES, CONSTRUCTION ACCESS TRACKS, TEMPORARY SECURITY/CONSTRUCTION COMPOUNDS, EROSION CONTROL MEASURES AND ALL CONSTRUCTION MATERIAL/EQUIPMENT SHALL BE REMOVED OFF-SITE AND LEGALLY DISPOSED WITHIN 15 DAYS OF COMPLETION OF WORK AND/OR ACCORDING TO THE LIMITS SPECIFIED WITHIN THE PLANTING AND SEEDING NOTES.
7. ALL IMPACTED AREAS SHALL BE COVERED WITH 6-INCH THICK TOPSOIL, SEEDING AND MULCH AS SPECIFIED.

KEY



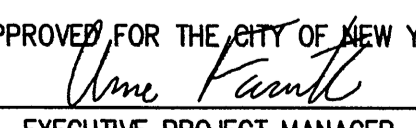
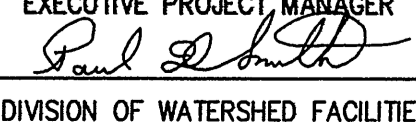

-  SITE AREA REQUIRING TEMPORARY COMPACTED, GRADED GRAVEL SURFACE AND GEOTEXTILE
-  DESIGNATED AREA FOR EXCAVATION AND STOCKPILED SOIL
-  TREES TO BE REMOVED
-  TEMPORARY CHAIN LINK PERIMETER FENCE
-  TEMPORARY SILT FENCING



TYPICAL PLAN FOR SECURITY/CONSTRUCTION COMPOUND
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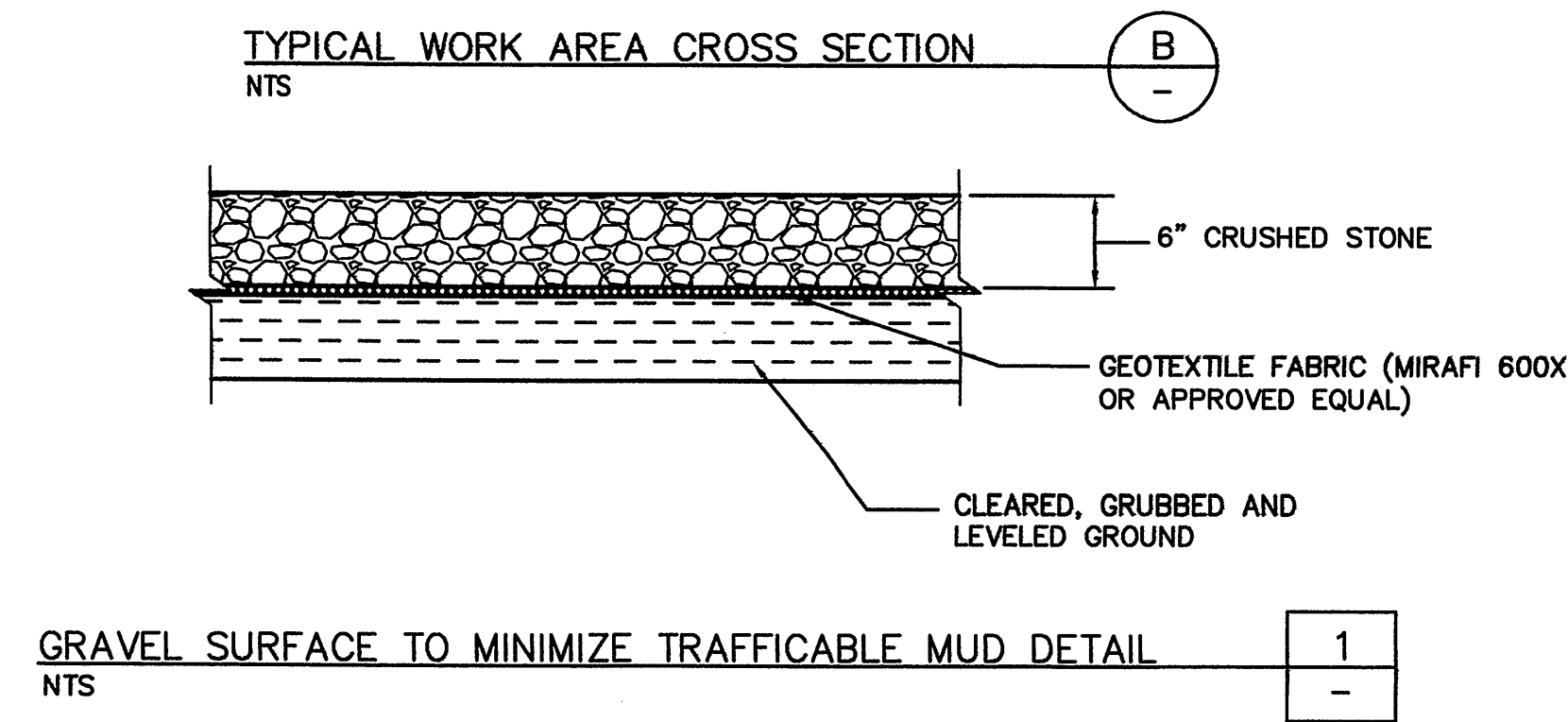
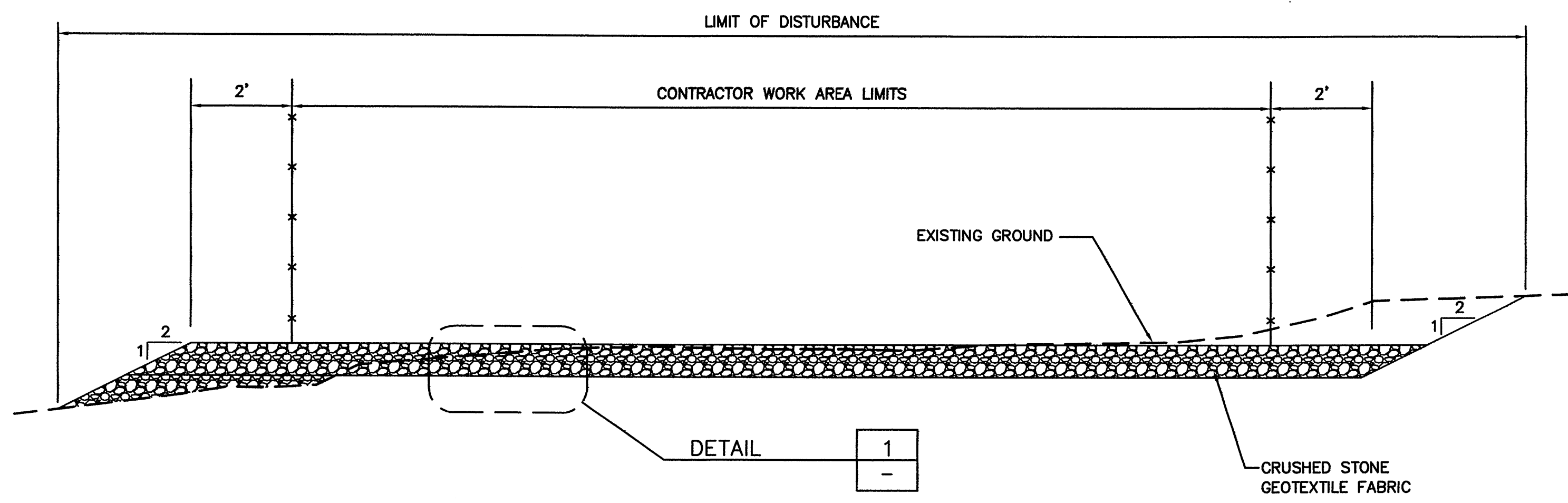
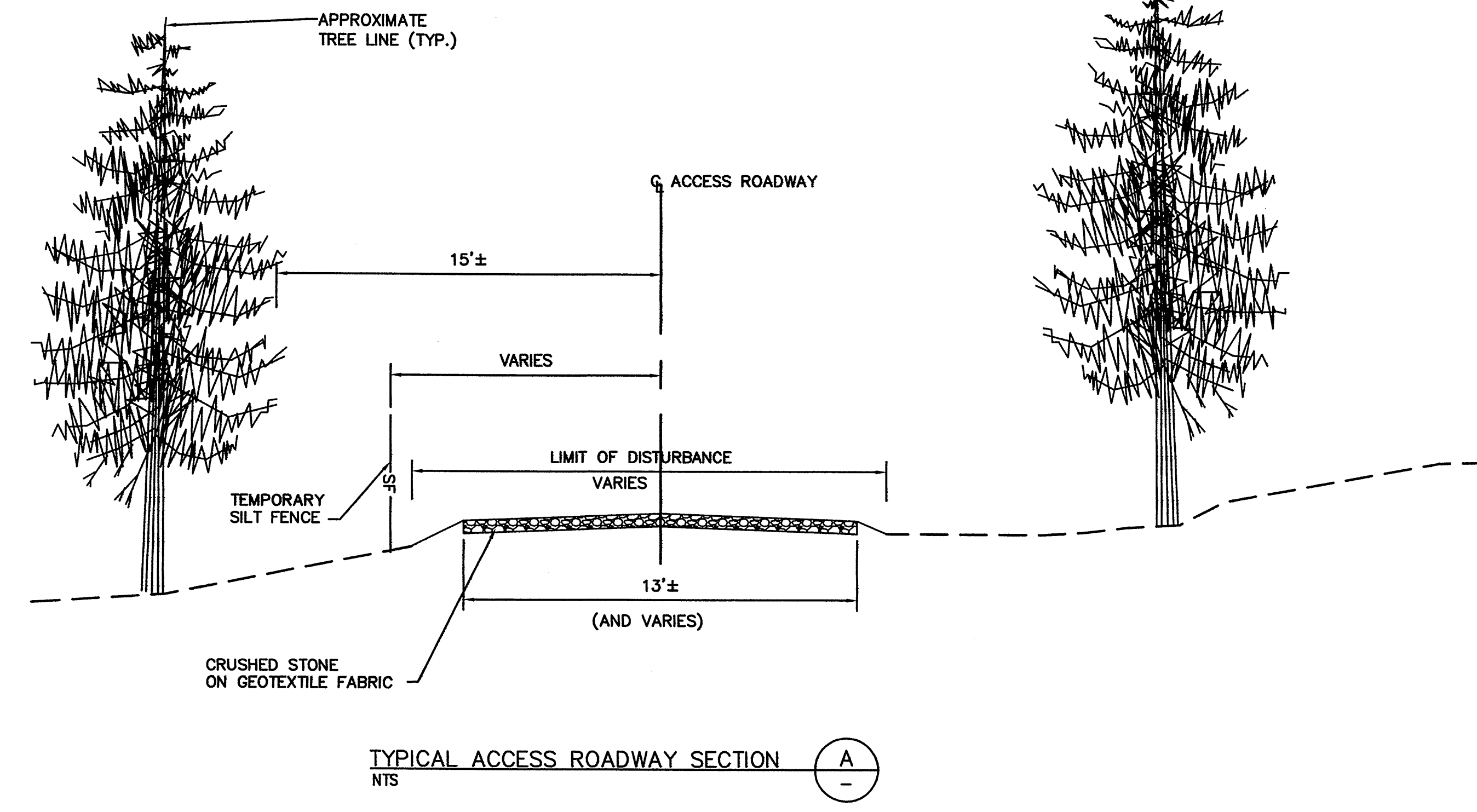


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DESIGNED <u>MS</u> DRAWN <u>JD</u> CHECKED <u>DR</u> SECT.CHIEF <u>JS</u> PROJ.ENGR. <u>ASN</u>		SCALE AS NOTED	 A JOINT VENTURE 	APPROVED FOR THE CITY OF NEW YORK  P.E. EXECUTIVE PROJECT MANAGER  P.E. CHIEF, DIVISION OF WATERSHED FACILITIES DESIGN		CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENGINEERING DESIGN & CONSTRUCTION DIVISION OF WATERSHED FACILITIES DESIGN NEW CROTON AQUEDUCT REHABILITATION	CONTRACT CRO-334G-STRUCTURES & EQUIPMENT TEMPORARY SECURITY/CONSTRUCTION COMPOUNDS AT REMOTE SHAFTS SHEET 1 OF 2	DATE <u>FEBRUARY 2008</u> SHEET <u>45</u> OF <u>284</u> DWG. NO. <u>C47</u>
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NOTES:

- OVERHEAD CLEARANCE PRUNING SHALL BE CONDUCTED TO ALLOW A 30'-0" WIDE (15' EITHER SIDE OF ACCESS ROAD CENTERLINE) CORRIDOR FOR CONTRACTOR'S EQUIPMENT, ELECTRICAL INSTALLATIONS AND SOIL EROSION CONTROL MEASURES.
- NO TREES, BRANCHES OR SHRUBS SHALL BE CUT OR DAMAGED UNLESS INDIVIDUALLY SPECIFIED FOR REMOVAL.
- THE DESIGN OF THE TEMPORARY GRADED GRAVEL SURFACES (ACCESS ROADS AND STAGING AREAS) SHALL BE AS PER CONSTRUCTION ROAD STABILIZATION SECTION OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".

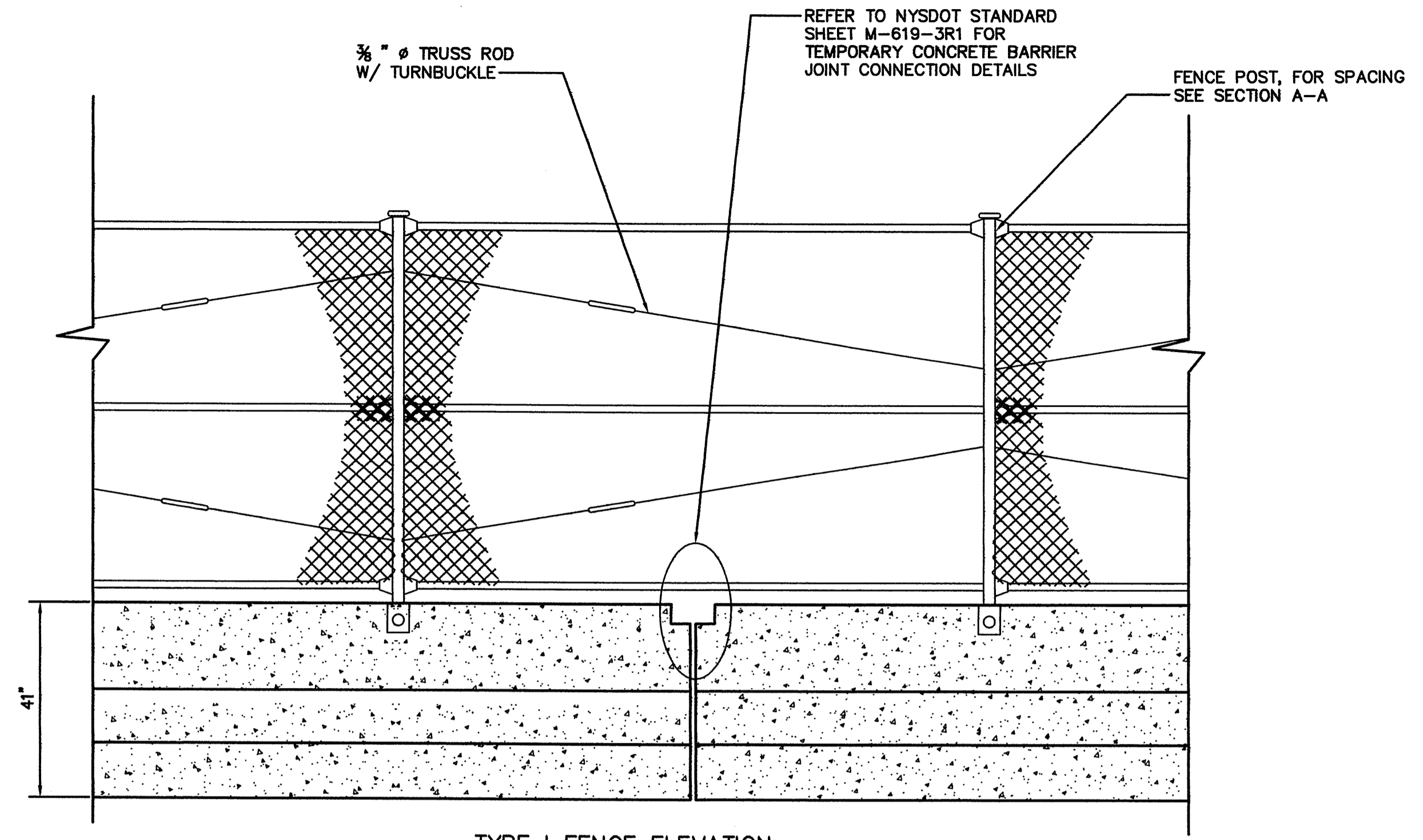


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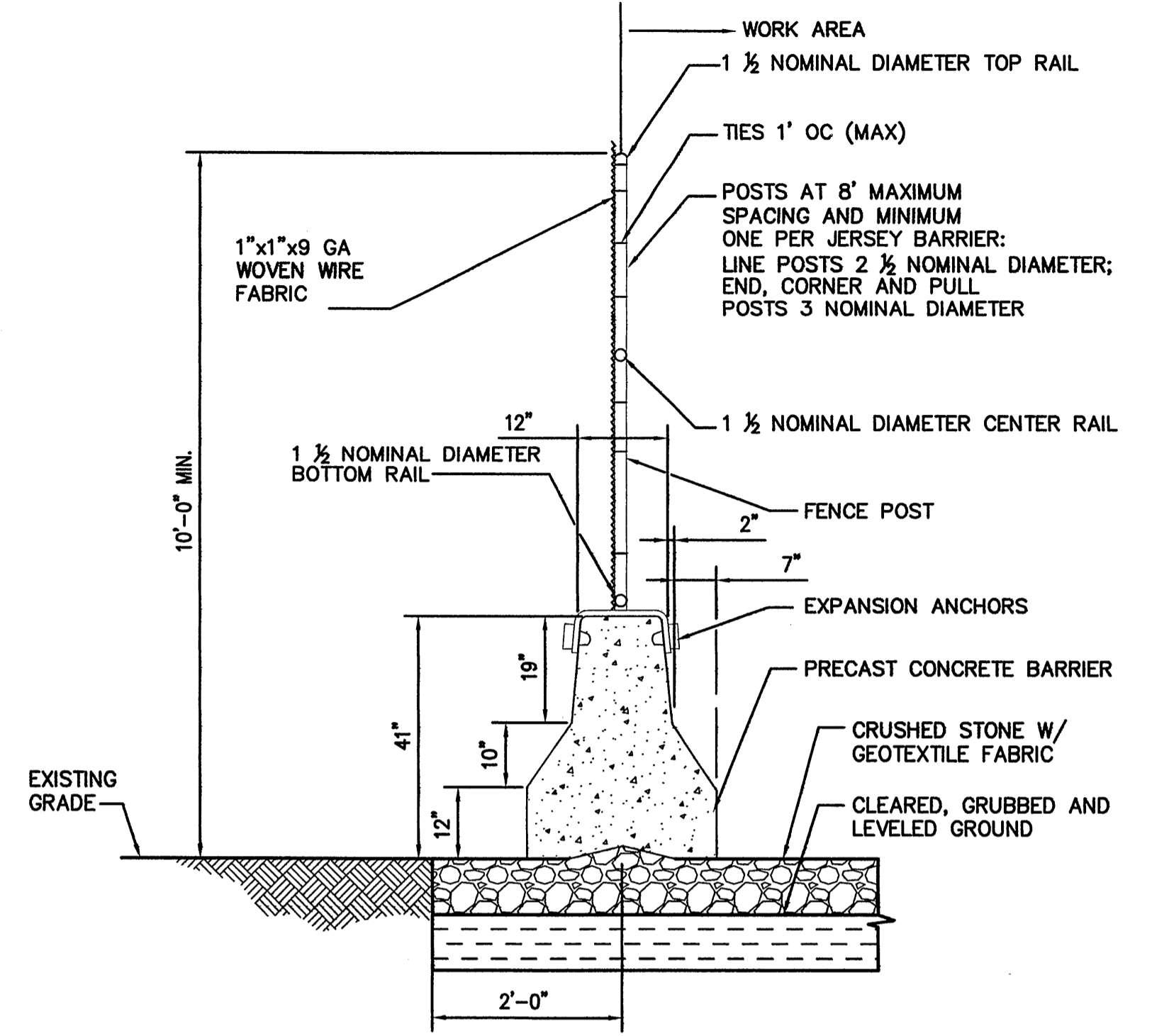


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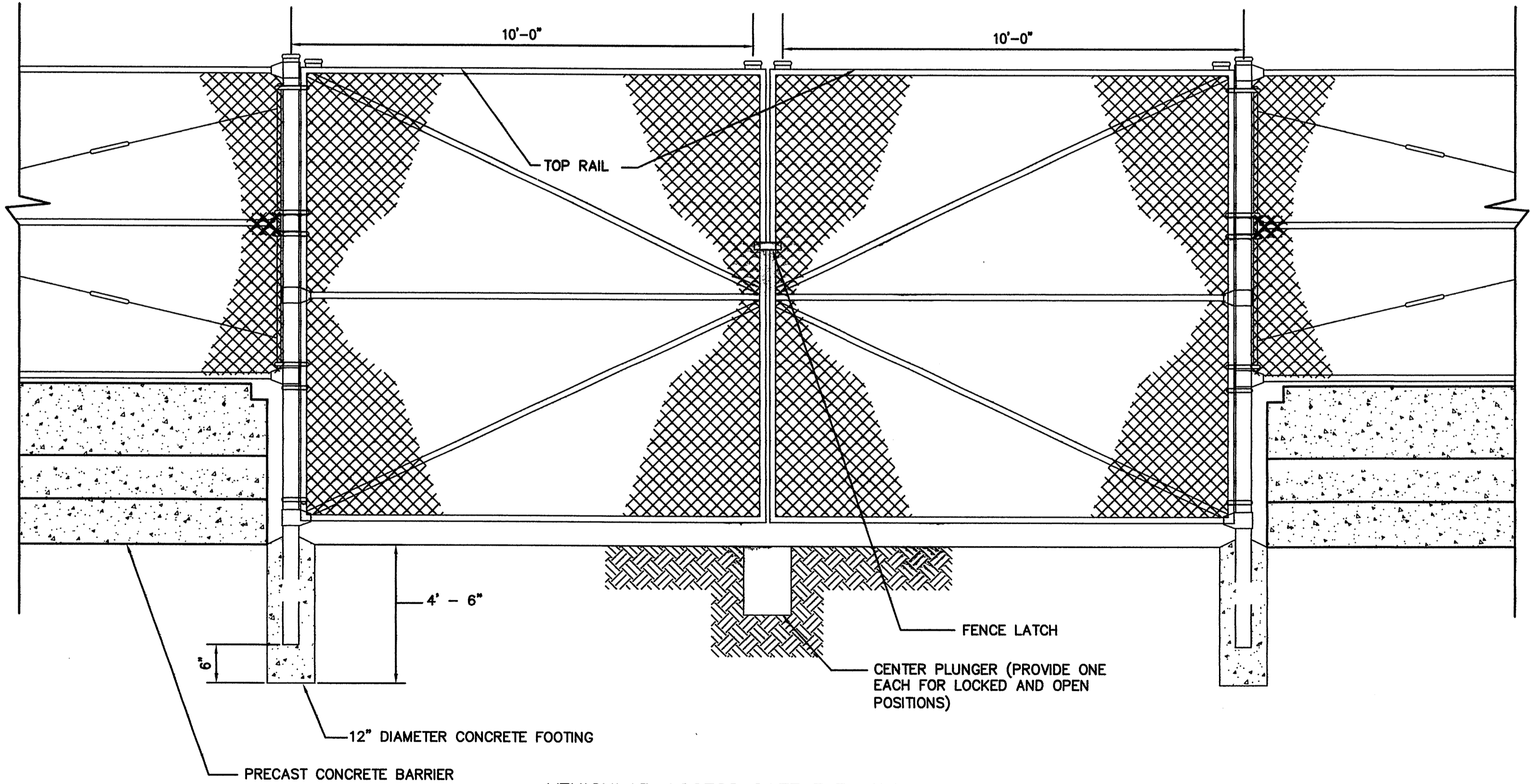
NO.	DATE	ISSUED FOR	BY	WARNING IT IS A VIOLATION OF SECTION 2209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY MANNER, PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	DESIGNED <u>MS</u>	SCALE AS NOTED	 A JOINT VENTURE HAZEN AND SAWYER Environmental Engineers & Scientists	APPROVED FOR THE CITY OF NEW YORK P.E. EXECUTIVE PROJECT MANAGER P.E. CHIEF, DIVISION OF WATERSHED FACILITIES DESIGN	 CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENGINEERING DESIGN & CONSTRUCTION DIVISION OF WATERSHED FACILITIES DESIGN NEW CROTON AQUEDUCT REHABILITATION	CONTRACT CRO-334G-STRUCTURES & EQUIPMENT TEMPORARY SECURITY/CONSTRUCTION COMPOUNDS AT REMOTE SHAFTS SHEET 2 OF 2	DATE <u>FEBRUARY 2008</u>
					SHEET <u>46</u> OF <u>284</u>			DWG. NO. <u>C48</u>			



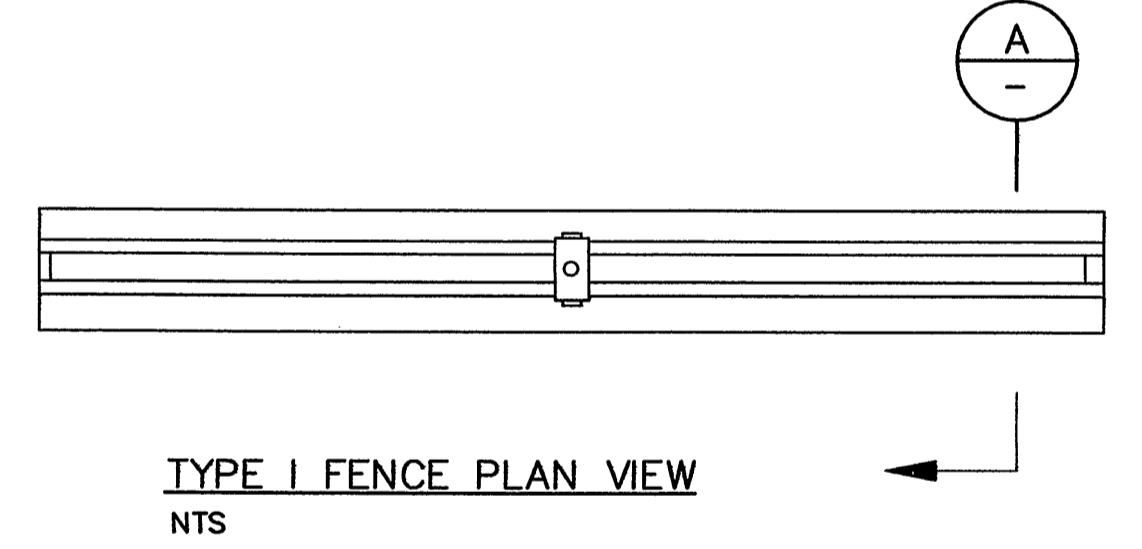
TYPE I FENCE ELEVATION
NTS



TYPE I FENCE SECTION A-A
NTS



VEHICULAR ACCESS GATE ELEVATION
NTS



TYPE I FENCE PLAN VIEW
NTS

PB Parsons Brinckerhoff Quade & Douglas, Inc.

MWH

STATE OF NEW YORK
Professional Engineer
088084

NO.	DATE	ISSUED FOR	BY

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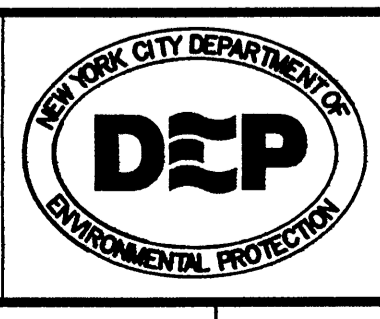
DESIGNED MS
DRAWN JD
CHECKED DR
SECT. CHIEF JS
PROJ. ENGR. ASN

SCALE AS NOTED

P.E.

M&E Metcalf & Eddy of New York, Inc.
A JOINT VENTURE
HAZEN AND SAWYER
Environmental Engineers & Scientists

APPROVED FOR THE CITY OF NEW YORK
Uma Faruk P.E.
EXECUTIVE PROJECT MANAGER
Paul J. Smith P.E.
CHIEF, DIVISION OF WATERSHED FACILITIES DESIGN

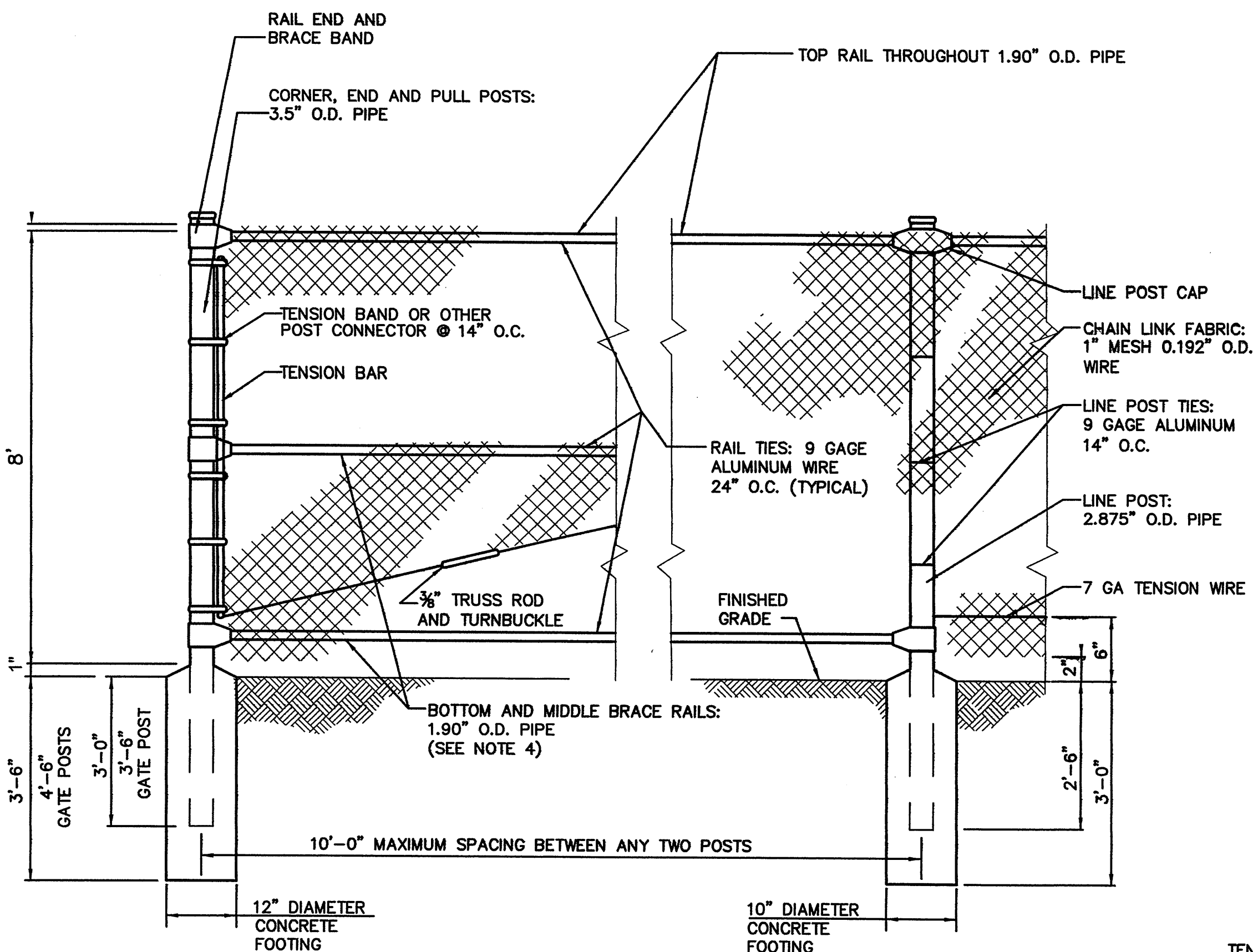


CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION
DIVISION OF WATERSHED FACILITIES DESIGN
NEW CROTON AQUEDUCT REHABILITATION

CONTRACT CRO-334G-STRUCTURES & EQUIPMENT
TEMPORARY FENCES, GATES AND JERSEY BARRIER DETAILS
SHEET 1 OF 2

DATE FEBRUARY 2008
SHEET 47 OF 284
DWG. NO. C49

PRIVILEGED AND CONFIDENTIAL



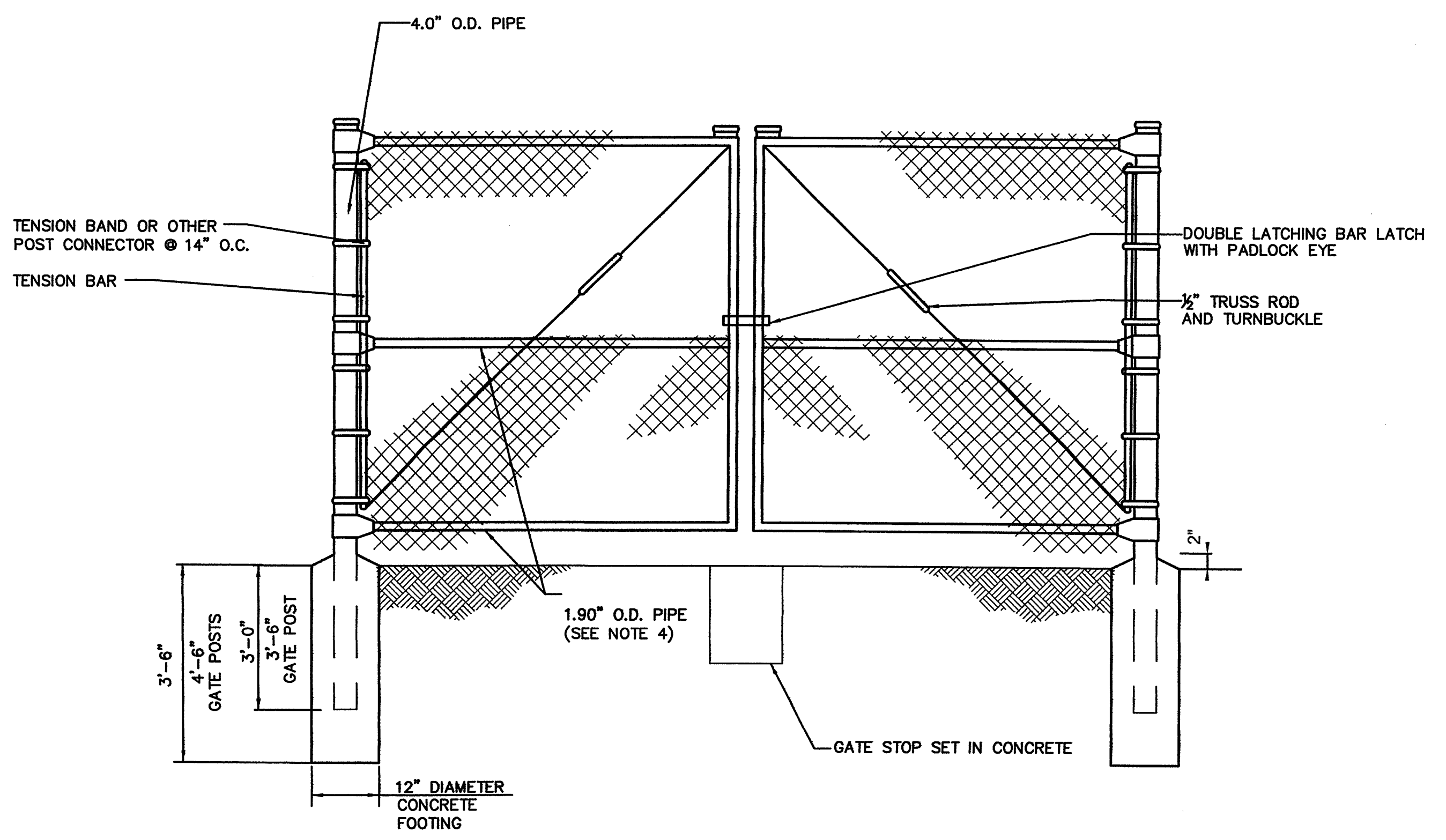
CORNER, END & PULL POST
NTS

LINE POST
NTS

NOTES:

1. THE CONTRACTOR SHALL SUBMIT THE DETAILS FOR GATES AND CHAINLINK FENCE TO THE ENGINEER FOR REVIEW. NO FENCE OR GATES SHALL BE ERECTED PRIOR TO THE APPROVAL OF THE VARIOUS DETAILS.
2. STEEL PIPES AND SHAPES SHALL WEIGH AT LEAST 95% OF THE WEIGHT SPECIFIED ON THIS SHEET. THEY MAY EXCEED THE SPECIFIED WEIGHT.
3. PIPE SECTIONS SHOWN ARE ASTM F1083 FOR STANDARD WEIGHT (SCHEDULE 40) PIPE. EQUIVALENT STEEL SECTIONS FOR FRAME SHALL BE BASED ON PIPE SECTION SHOWN.
4. MIDDLE AND BOTTOM BRACE RAILS AND BRACE ROD ON ONE BAY EACH SIDE OF CORNER, END, PULL AND GATE POSTS ONLY.

GATE POSTS			
PIPE SIZE		SWING GATE OPENINGS	
NOM. O.D. PIPE	WEIGHT LB/FT	SINGLE GATE	DOUBLE GATE
3.500"	5.79	UP THRU 6'	UP THRU 12'
4.000"	9.11	7 THRU 13'	13 THRU 26'
6.625"	18.97	14 THRU 18'	27 THRU 36'
8.625"	28.55	19 THRU 32'	37 THRU 64'



GATE
NTS

PB Parsons Brinckerhoff Quade & Douglas, Inc.

MWH

STATE OF NEW YORK
ANGELA MURPHY
REGISTERED PROFESSIONAL ENGINEER
068064

WARNING: IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN AFFIXED, IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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A JOINT VENTURE
HAZEN AND SAWYER
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APPROVED FOR THE CITY OF NEW YORK
Am Famille P.E.
EXECUTIVE PROJECT MANAGER
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CHIEF, DIVISION OF WATERSHED FACILITIES DESIGN

NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION
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