

#### 292.79C\* 292.63C 292.33C 292.26C \[ \ 291.90C \] \[ \ 291.63C \] \[ \ 291.21C \] \[ \ 291.29C \] **GENERAL EROSION AND SEDIMENT CONTROL NOTES:** 1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL". NOVEMBER TEMPORARY SOIL STOCKPILE (TYP) 2. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT USED IMMEDIATELY CS 4.51 FOR GRADING PURPOSES. INSTALL SEDIMENT BARRIERS AROUND SOIL STOCKPILES. 3. APPLY SURFACE STABILIZATION AND RESTORATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED. SUSPENDED, OR INCOMPLETE AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN CONCRETE WASHOUT THAT PORTION OF THE SITE HAS CEASED. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT BE AREA (TYP) REDISTURBED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. (SEE LIMITS OF DISTURBANCE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER). SEEDING FOR PERMANENT VEGETATIVE COVER TOTAL AREA= $\pm 3.72$ AC SHALL BE WITHIN THE SEASONAL LIMITATIONS. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING CS 4.53 4. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS. 5. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION. 6. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND 7. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED. 8. FOR ADDITIONAL WINTER STABILIZATION REQUIREMENTS SEE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", NOVEMBER 2016. SPDES GENERAL PERMIT GP-0-20-001 COMPLIANCE NOTES: TURF RÉINFORCEMENT MAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE FOLLOWING: . THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL READ AND UNDERSTAND THE CONDITIONS OF THE "NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) STATE CS 4.53 POLLUTANT DISCHARGE ELIMINATION (SPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES FROM **▲**FF 298.46 CONSTRUCTION ACTIVITIES", GP-0-20-001 FOR THIS PROJECT. METAL TRAILER 2. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL SIGN A COPY OF THE GENERAL PERMIT, 295,57 GP-0-20-001, CERTIFICATION STATEMENT AS IDENTIFIED IN THE APPENDICES OF THE STORM WATER POLLUTION PREVENTION PLAN. 3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS NECESSARY FOR THE WORK OUTLINED 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL STORM WATER POLLUTION PREVENTION MEASURES OUTLINED IN THE STORM WATER POLLUTION PREVENTION PLAN AND SITE SHED 5. THE CONTRACTOR SHALL HOLD A PRECONSTRUCTION CONFERENCE WITH THE OWNER'S REPRESENTATIVES AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF CONSTRUCTION. 6. THE CONTRACTOR/OWNER SHALL HAVE A QUALIFIED INSPECTOR, AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY PERMIT NO. GP-0-20-001, CONDUCT AN INITIAL SITE ASSESSMENT PRIOR TO CONSTRUCTION, FOLLOWING THE COMMENCEMENT OF CONSTRUCTION, THE QUALIFIED INSPECTOR SHALL CONDUCT AT LEAST ONE (1) SITE INSPECTION EVERY SEVEN (7) CALENDAR DAYS. REFER TO SWPPP FOR INSPECTION GUIDELINES. 7. PRIOR TO COMMENCEMENT OF CONSTRUCTION, A QUALIFIED INSPECTOR IN EROSION AND SEDIMENT CONTROL (HIRED BY CONTRACTOR/OWNER) SHALL CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROL STRUCTURES AS DEPICTED ON THE PLANS HAVE BEEN ADEQUATELY INSTALLED AND IMPLEMENTED. CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER ONCE THE EROSION AND SEDIMENT CONTROL STRUCTURES HAVE BEEN INSTALLED. REFER TO STORMWATER POLLUTION PREVENTION PLAN FOR INSPECTION GUIDELINES. 8. THE OWNER/OPERATOR SHALL MAINTAIN A RECORD OF ALL EROSION AND SEDIMENT CONTROL INSPECTION REPORTS AT THE SITE IN A LOG BOOK. THE SITE LOG BOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE PERMITTING AUTHORITY. THE OWNER/CONTRACTOR SHALL POST AT THE SITE, IN A PUBLICLY-ACCESSIBLE LOCATION, A SUMMARY OF THE SITE INSPECTION ACTIVITIES ON A MONTHLY BASIS. 9. THE OWNER/OPERATOR SHALL FILE A NOTICE OF INTENT (NOI) WITH THE NYSDEC +ND MO+ CONSTRUCTION ACTIVITIES AND A NOTICE OF TERMINATION (NOT) WITH NYSDEC FOLLOWING CONSTRUCTION ACTIVITIES. **EROSION & SEDIMENT INSPECTION & MAINTENANCE SCHEDULE** COMPLETION STRUCTURE DAILY | WEEKLY | RAINFALL F CONSTRUCTION **FUNCTION** INSPECT INSPECT REMOVE BARRIER REPLAĆE DUST CONTROL | INSPECT | INSPECT SPRAYING N/A WATERING/ VEGETATIVE RE-SEEDING, PERMANENT | INSPECT | INSPECT ESTABLISHMENT INSPECT INSPECT REPAIR/ REMOVE **PROTECTION** STABILIZED REPLACE INSPECT INSPECT CONSTRUCTION REMOVE STONE & ENTRANCE **FABRIC** TRUCK INSPECT --INSPECT REMOVE REPLACÉ COMPOST FILTER SOCK WASHOUT WILET PROTECTION (TYP) COMPOST FILTER SOCK (TYP) LINEAR <sup>1</sup> PERIMETER BARRIER 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE. 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V: 2H. WETLAND PROTECTION FENCING (TYP) 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH A LINEAR PERIMETER BARRIER, THEN STABILIZED WITH VEGETATION OR COVERED. 4. SEE SPECIFICATIONS FOR INSTALLATION OF LINEAR BARRIER. CS 4.53 TEMPORARY SOIL STOCKPILE **EROSION AND SEDIMENT CONTROL LEGEND:** - WETLAND AREA -♦--- PROPOSED COMPOST FILTER SOCK WETLAND AREA COMPOST FILTER SOCK INLET PROTECTION TURF REINFORCEMENT MAT AREA

DATE

THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NO

CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTIN CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIV

NFORMATION AS THEY MAY NOT HAVE BEEN BUILT AND DETAILE

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KEY PLAN

CHECK BY:

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CONTRACT No. SU-092823 - GENERAL CONS

MUTLI-PURPOSE

OCTOBER 25, 2023

CS4.51

SU-092923 - ELECTRICAL

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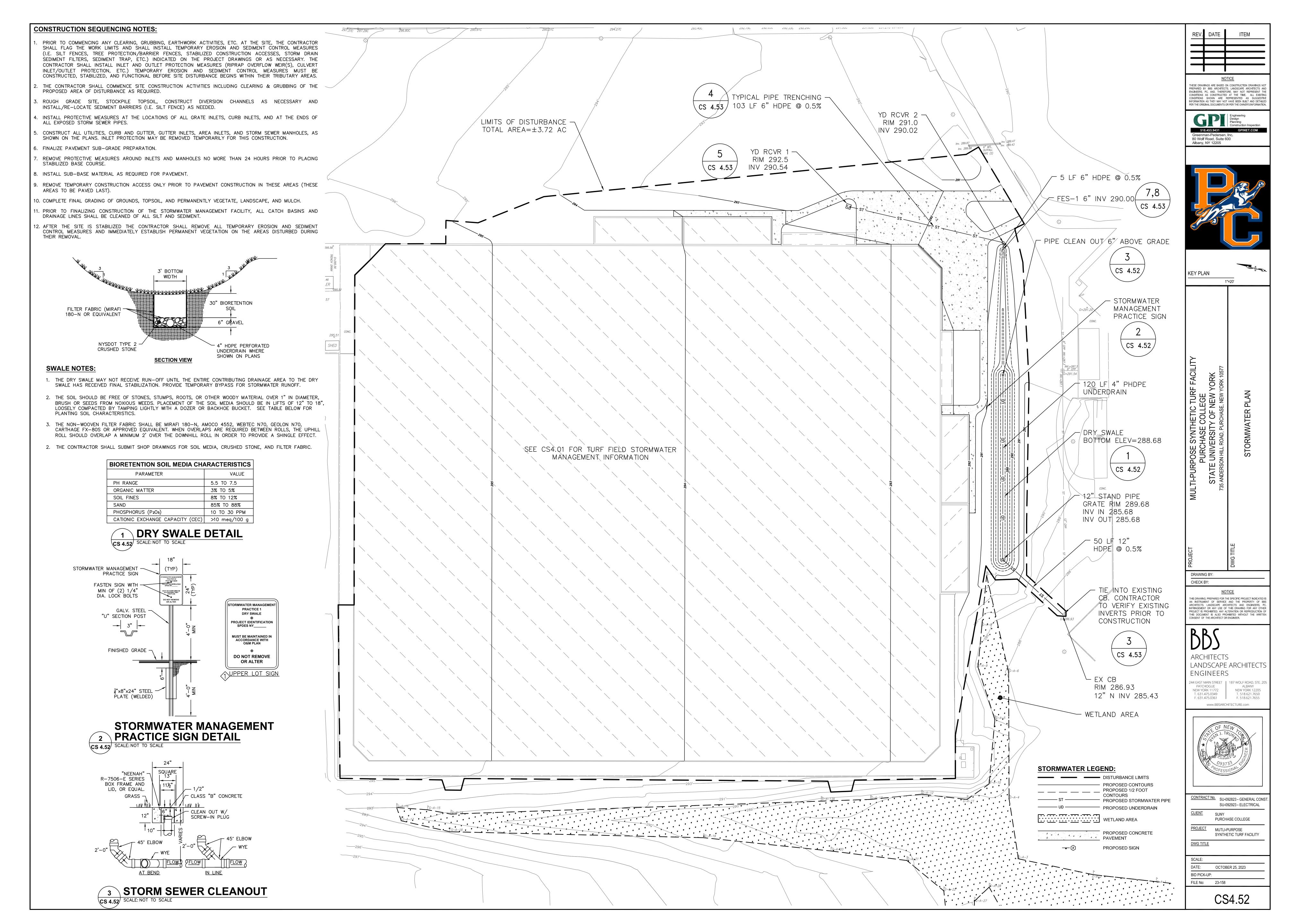
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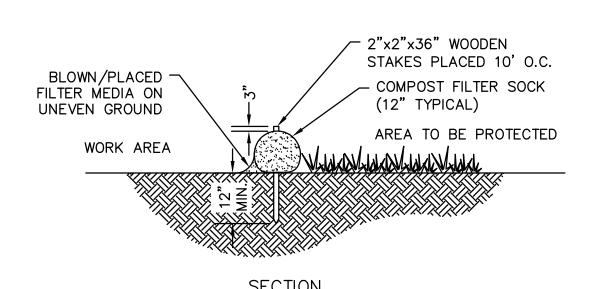
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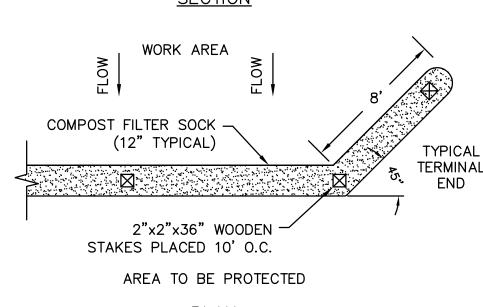
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- \* AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SILT IN
- THE SOIL, A ROLLER WITH MANY SKIPES MAKING INDENTATIONS IN THE SOIL, OR PRONGS WHICH FUNCTION LIKE A MINI-SUBSOILER \*\* PER "DEEP RIPPING AND DE-COMPACTION, DEC 2008

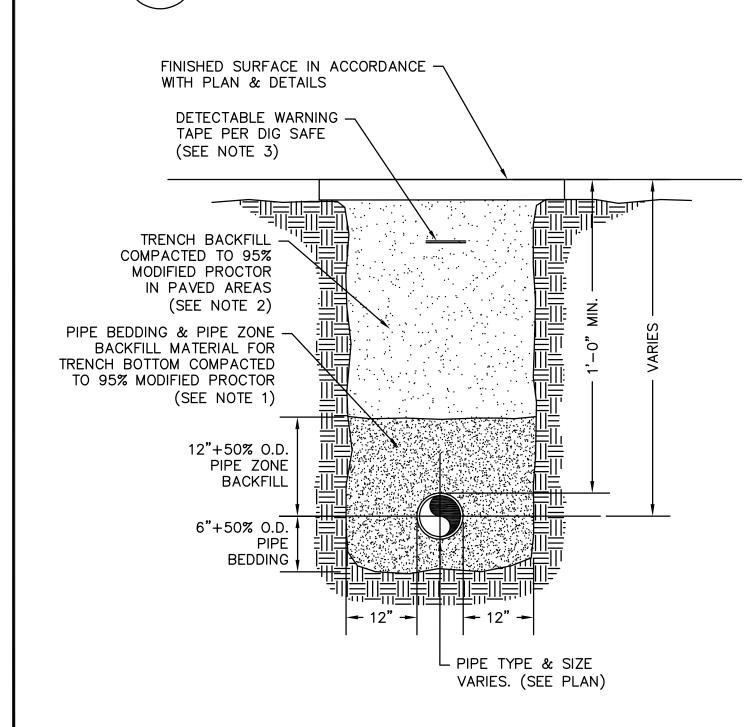


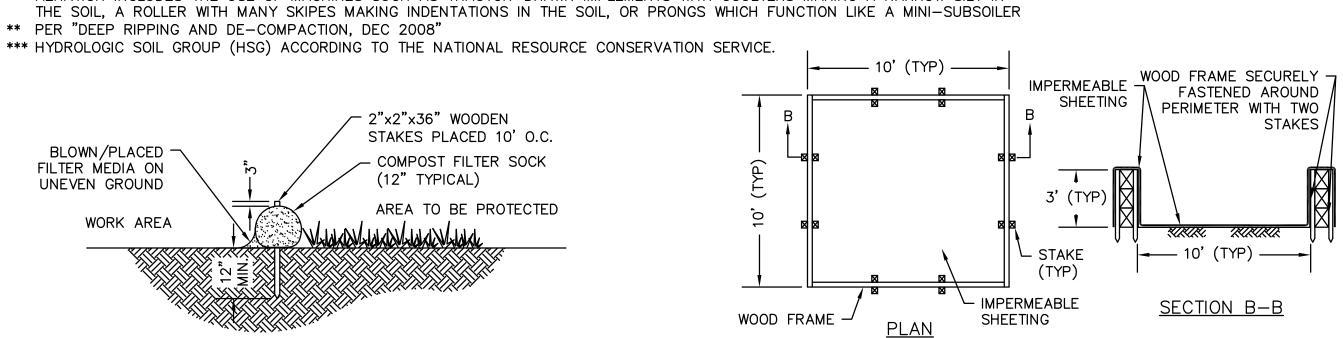


- 1. COMPOST FILTER SOCKS SHALL BE FILTREXX SILTSOXX OR EQUIVALENT.
- 2. THE COMPOST FILTER SOCK SHALL MEET THE REQUIREMENTS IN THE NEW YORK STANDARD SPECIFICATION FOR EROSION AND SEDIMENT CONTROL
- 3. THE COMPOST INFILL SHALL MEET THE PHYSICAL PARAMETERS IN TABLE 5.3—COMPOST STANDARDS TABLE
- 4. SOCKS MAY BE FILLED AFTER PLACEMENT BY BLOWING COMPOST INTO THE TUBE PNEUMATICALLY, OR FILLED AT A STAGING LOCATION AND MOVED INTO THE DESIGNED LOCATION.
- 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND ACCUMULATED SEDIMENT REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT.
- 6. COMPOST FILTER SOCKS SHALL BE USED WHERE EROSION COULD OCCUR IN THE
- FORM OF SHEET EROSION. 7. UPON STABILIZATION OF THE CONTRIBUTING AREA, THE STAKES SHALL BE
- REMOVED. THE SOCKS SHALL BE REMOVED BY CUTTING THE MESH AND THE COMPOST SPREAD AS AN ADDITIONAL MULCH TO ACT AS A SOIL SUPPLEMENT
- 8. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUN-OFF TO A 12" COMPOST FILTER SOCK ARE: % SLOPE MAXIMUM SLOPE LENGTH(FT)



### **COMPOST FILTER SOCK INSTALLATION** CS 4.53 SCALE: NOT TO SCALE

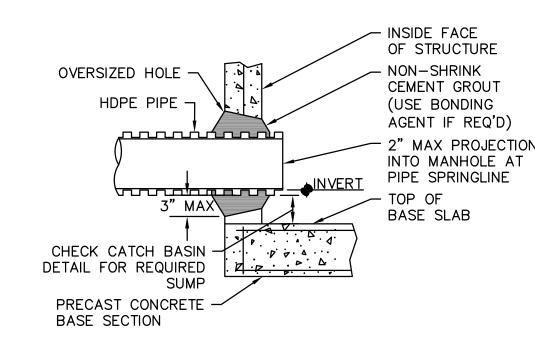




#### **WASHOUT NOTES**

- 1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
- 2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
- 3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
- 4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
- 5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET—VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS. REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

# TEMPORARY CONCRETE WASHOUT STRUCTURE WITH WOODEN PLANKS



# HDPE PIPE GROUT SEAL JOINT TO DRAINAGE STRUCTURE

PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A

AND ELONGATED PARTICLES, AND SHALL BE WELL

MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF

SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS

GRADED FROM FINE TO COARSE PARTICLES. BEDDING

GRADATIONS SHALL BE APPROVED BY THE ENGINEER

RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR

PARTICLES, AND SHALL BE WELL GRADED FROM FINE

GRADATIONS SHALL BE APPROVED BY THE ENGINEER

EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED

% PASSING

100%

0-70%

0-10%

**% PASSING** 

100%

0-70%

0-10%

NATURAL RUN-OF-BANK (R.O.B.) SAND OR A

AND SHALL MEET THE FOLLOWING GRADATION

2. TRENCH BACKFILL SHALL BE A NATURAL

TO COARSE PARTICLES. TRENCH BACKFILL

AND SHALL MEET THE FOLLOWING GRADATION

IN UNPAVED AREAS TRENCH BACKFILL CAN BE

MATERIALS EXCAVATED FROM THE TRENCH AS

3. INSTALL CONTINUOUS DETECTABLE MARKING TAPE

DURING BACKFILLING OF TRENCH FOR UNDERGROUND

DIRECTLY OVER PIPING. EXCEPT 6" BELOW SUBGRADE

PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE,

4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE

APPROVED BY THE ENGINEER.

UNDER PAVEMENTS & SLAB.

WITH O.S.H.A. STANDARDS.

REQUIREMENTS:

NO. 40

NO. 200

REQUIREMENTS:

NO. 40

NO. 200

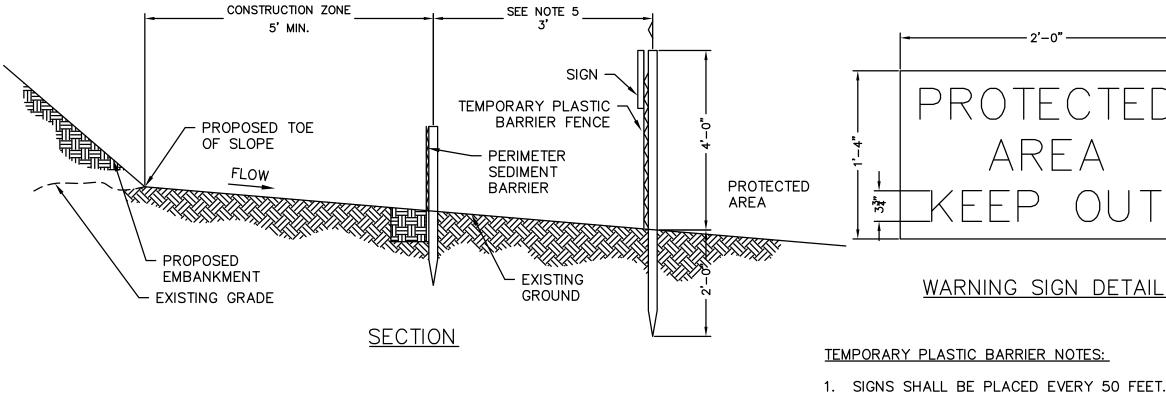
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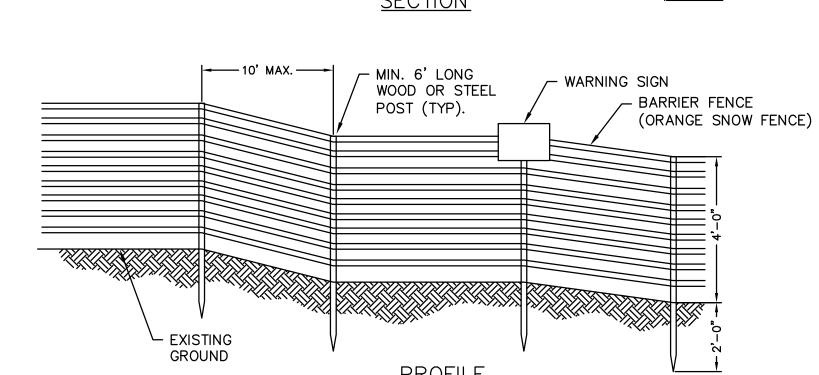
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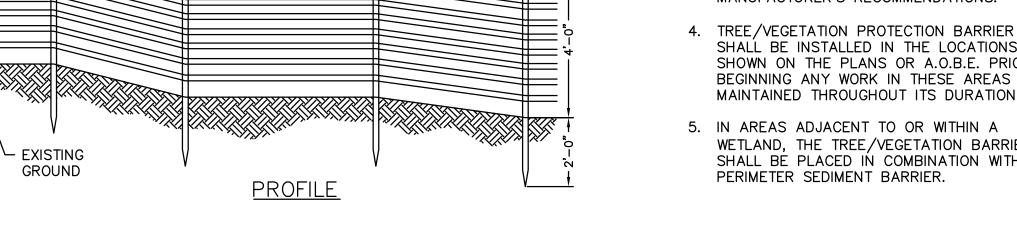
# **END SECTION** STONE LINED APRON CS 4.53 SCALE: NOT TO SCALE

STONE APRON SIZING REQUIREMENT

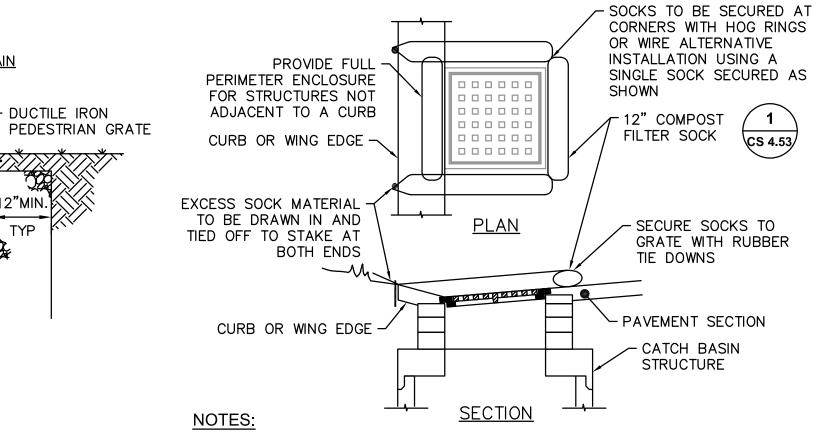
TABLE "A"







# TEMPORARY PLASTIC BARRIER FENCE



SECURE FILTERSOCK TO GROUND AT BOTH ENDS

INLINE DRAIN

- DUCTILE IRON

2"MIN.

INLINE DRAIN

WATERTIGHT

ADAPTER

<u>DRAIN BASIN</u>

TYP

PIPE INVERTS

AS INDICATED

ACCEPTED.

STORM SEWER

3 MAX.

STORM

SEWER

CULVERT TAILWATER

DIA. (D) DEPTH

15.71**"** 

ON PLANS

- TOPSOIL OR TOP CONCRETE

DUCTILE IRON

PEDESTRIAN GRATE

· YARD DRAIN SHALL

COMPATIBLE WITH

PIPE SIZE INDICATED

BE SIZED TO BE

ON PLANS

& NO. 2 CRUSHED STONE PER

TABLE 703-4 IN THE NYSDOT

STANDARD SPECIFICATIONS

- DRAINAGE BASIN

:1 MIX RATIO OF NYSDOT NO. 1-

<u>SECTION</u>

WATERTIGHT

TYPICAL PLAN

ADAPTER

AND INSTALLED PER MANUFACTURERS RECOMMENDATION. NYLOPLAST

SYSTEM BY ADS USED AS DESIGN BASIS, EQUIVALENT SUBSTITUTIONS

- **La** ----

- FLARED END CS 4.53

STONE FILLING MEETING

SPECIFICATIONS SECTION

BEDDING MATERIAL

STANDARD SPECIFICATION

APRON UPSTREAM STREAM

MEETING NYSDOT

SECTION 620

DEPTH | LENGTH | WIDTH

14'

MIRAFI 180-N OR

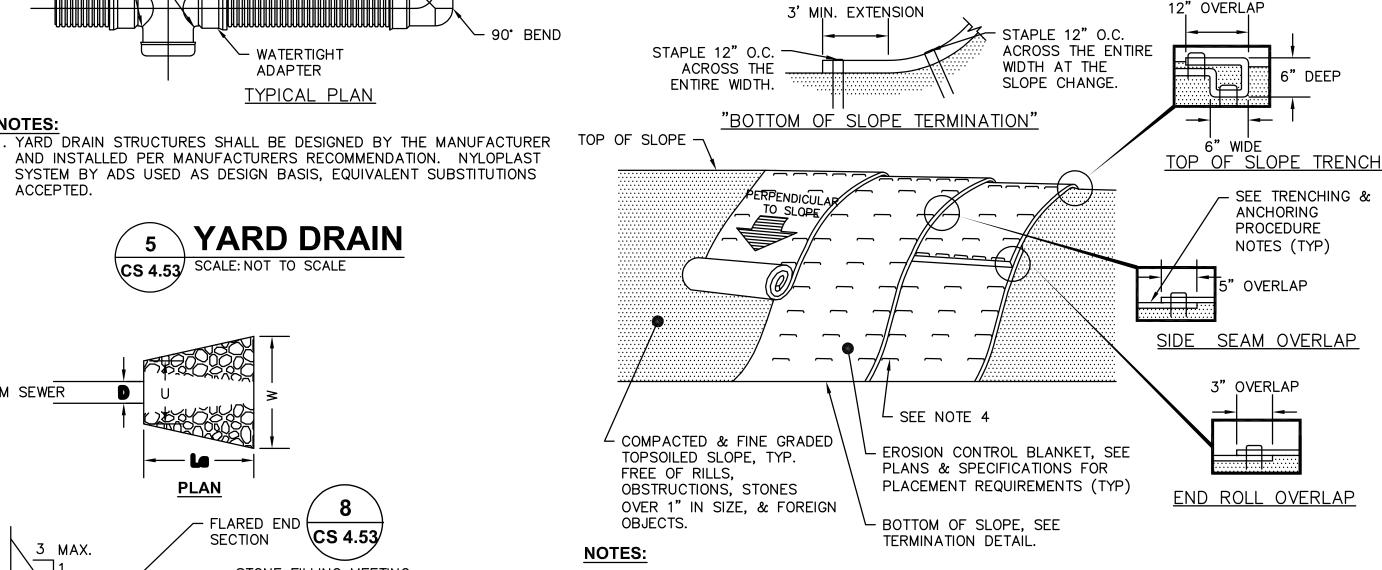
NYSDOT STANDARD

620 (SEE TABLE A)

FINISHED GRADE

- 2. INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.
- 3. SEE COMPOST FILTER SOCK INSTALLATION DETAIL FOR ADDITIONAL NOTES AND SPECIFICATIONS.

# COMPOST FILTER SOCK INLET PROTECTION DETAIL CS 4.53



1. PREPARE THE TOPSOIL (SEEDBED) FIRST BY RAKING. SHAPING. FINE GRADING. COMPACTING. SEEDING & FERTILIZING THE SLOPES.

2. USE THE TRENCHING & ANCHORING PROCEDURES DETAILED HEREIN TO SECURE ANY EXPOSED MATERIAL ENDS. SECURE ALL PRODUCT OVERLAPS. OVERLAP IN THE DIRECTION OF WATER FLOW, APPROVED EQUIVALENTPERPENDICULAR TO THE SLOPE.

3. KEEP EROSION CONTROL BLANKET IN SOLID CONTACT WITH THE TOPSOIL

4. USE THE REQUIRED NUMBER OF STAPLES/STAKES TO SECURELY FASTEN THE EROSION CONTROL BLANKET TO THE SLOPE. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES/STAKES LENGTHS GREATER THAN 6" MAYBE NECESSARY FOR PROPER SECURING. STAPLE PATTERNS & OVERLAPS ARE DEPENDENT ON SITE CONDITIONS & MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL CONSULT WITH MANUFACTURER FOR ACTUAL SITE SPECIFIC REQUIREMENTS

# TRENCHING & ANCHORING PROCEDURE NOTES:

CS 4.53 SCALE: NOT TO SCALE

WARNING SIGN DETAIL

SIGN BACKGROUND WILL BE ORANGE WITH

BLACK LETTERING. SIGN SHALL BE 3/4"

3. FENCE SHALL BE ATTACHED TO POSTS PER

SHALL BE INSTALLED IN THE LOCATIONS

MAINTAINED THROUGHOUT ITS DURATION.

WETLAND. THE TREE/VEGETATION BARRIER

PERIMETER SEDIMENT BARRIER.

SHALL BE PLACED IN COMBINATION WITH THE

SHOWN ON THE PLANS OR A.O.B.E. PRIOR TO

BEGINNING ANY WORK IN THESE AREAS AND

MANUFACTURER'S RECOMMENDATIONS.

OUTDOOR RATED PLYWOOD OR SIMILAR

MATERIAL.

SIDE SEAM OVERLAP: THE EDGES OF PARALLEL BLANKETS SHALL BE STAPLED WITH A 5" OVERLAP.

TOP OF SLOPE TRENCH: BEGIN AT THE TOP OF SLOPE BY ANCHORING THE EROSION CONTROL BLANKET IN A 6"D x 6"W TRENCH WITH A 12" OVERLAP EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR WITH A ROW OF STAPLES/STAKES 12" O.C. IN THE BOTTOM OF THE TRENCH. BACKFILL & COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL & FOLD THE REMAINING 12" PORTION OF THE EROSION CONTROL BLANKET BACK OVER THE SEED & COMPACTED SOIL. SECURE THE EROSION CONTROL BLANKET OVER THE COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED 12" O.C. ACROSS THE ENTIRE WIDTH.

"C" (END ROLL OVERLAP): CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE SHALL BE PLACED END OVER END (SHINGLE-STYLE) WITH A 3" OVERLAP. STAPLE THRU OVERLAPPED AREAS, 12" APART ACROSS THE ENTIRE WIDTH.

# E THREADED ROD WITH WING NUTS AND SPACERS TRASH GRATE LONGITUDINAL SECTION **CONNECTION** TYPICAL END SECTION END SECTION DIMENSIONS 6" 6.5" 10" 6.5" 25" 29" WHERE SPECIFIED, PROVIDE TRASH GRATE BY SAME MANUFACTURER **ELEVATION** AS FLARED END SECTION.

# **8 TYPICAL FLARED END SECTION** CS 4.53 SCALE: NOT TO SCALE

2. ADS, Inc. STANDARD OF QUALITY.

#### **GENERAL EROSION AND SEDIMENT CONTROL NOTES:**

1. SEE SHEET CS4.51 FOR GENERAL EROSION AND SEDIMENT CONTROL NOTES.

#### **EROSION AND SEDIMENT CONTROL MEASURES:**

#### **GENERAL MEASURES:**

- 1. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
- 2. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
- 3. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.
- 4. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.

#### PARTICULAR MEASURES:

1. STABILIZED CONSTRUCTION ENTRANCE, UTILIZED DURING CONSTRUCTION, SHALL BE MAINTAINED IN A CONDITION THAT SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS—OF—WAY MUST BE REMOVED IMMEDIATELY. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS—OF—WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

2. SOIL STOCKPILES: SILT FENCES SHALL BE CONSTRUCTED AROUND ALL STOCKPILES OF FILL. TOPSOIL. AND EXCAVATED OVERBURDEN THAT ARE TO REMAIN EXPOSED FOR PERIODS LESS THAN 21 DAYS. SILT FENCES SHALL BE ANCHORED AND MAINTAINED IN GOOD CONDITION UNTIL SUCH TIME AS SAID STOCKPILES ARE REMOVED AND STOCKPILING AREAS ARE BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED. TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 21 DAYS SHALL BE STABILIZED BY SEEDING. PRIOR TO THE SEEDING OPERATION, THE STOCKPILED MATERIAL SHALL BE GRADED AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND

MULCH ANCHORING. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM, OR OTHER SURFACE WATER BODY.

3. ANCHORED STABILIZATION MATTING: PREPARE SOIL BEFORE INSTALLING MATTING BY SMOOTHING SURFACE, REMOVING DEBRIS AND LARGE STONE, AND APPLYING LINE, FERTILIZER AND SEED. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE MAT IN A 6" DEEP BY 6" WIDE TRENCH, BACKFILL AND COMPACT AFTER STAPLING. ROLL MATS DOWN THE SLOPE WITH A MINIMUM 4" OVERLAP. ROLI CENTER MAT IN A CHANNEL IN THE DIRECTION OF WATER FLOW. DO NOT STRETCH BLANKETS. BLANKETS SHALL HAVE GOOD CONTINUOUS CONTACT WITH THE UNDERLYING SOIL THROUGHOUT ITS ENTIRE LENGTH. THE TERMINAL END OF THE MATS MUST BE ANCHORED IN A 6" x 6" WIDE TRENCH, BACKFILL AND COMPACT AFTER STAPLING. STAPLING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

4. CONCRETE TRUCK WASHOUT: WASHOUT FACILITIES SHALL BE PROVIDED FOR EVERY PROJECT WHERE CONCRETE WILL BE POURED OR FORMED ON SITE. THIS FACILITY WILL RECEIVE HIGHLY ALKALINE WASH WATER FROM THE CLEANING OF CHUTES, MIXERS, HOPPERS, VIBRATORS, PLACING EQUIPMENT, TROWELS AND SCREEDS. THE FACILITY MUST BE LOCATED A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS, AND OTHER SURFACE WATERS. ALL WASHOUT FACILITIES WILL BE LINED TO PREVENT LEACHING OF LIQUIDS INTO THE GROUND. THE LINER SHALL BE PLASTIC SHEETING WITH A MINIMUM THICKNESS OF 10 MILS WITH NO HOLES OR TEARS AND ANCHORED BEYOND THE TOP OF THE PIT WITH AND EARTHEN BERM, SAND BAGS, STONE, OR OTHER STRUCTURAL

#### ANCHORED STABILIZATION MATTING APPURTENANCE EXCEPT AT THE ACCESS POINT.

# MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES

PERMANENT AND TEMPORARY VEGETATION:

INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE:

INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF—SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

# SEDIMENT CONTROL BARRIERS:

INSPECT FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

# SOIL STOCKPILE:

INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR COMPOSITE FILTER SOCK) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVE **DUST CONTROL:** 

SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

# ANCHORED STABILIZATION MATTING:

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM OF 80% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 2 CALENDAR DAYS. **CONCRETE TRUCK WASHOUT:** 

CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. EXCESS RAINWATER THAT HAS ACCUMULATED OVER THE HARDENED CONCRETE SHOULD BE PUMPED TO A STABILIZED AREA, SUCH AS A GRASS FILTER STRIP. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF SITE. DISPOSE OF THE HARDENED MATERIAL OFF SITE IN A CONSTRUCTION/DEMOLITION LANDFILL. ON SITE DISPOSAL MAY BE ALLOWED IF THIS HAS BEEN APPROVED AND ACCEPTED AS PART OF THE PROJECTS SWPPP. IN THAT CASE, THE MATERIAL SHOULD BE RECYCLED AS SPECIFIED, OR BURIED AND COVERED WITH A MINIMUM 2 FEET OF CLEAN COMPACTED EARTH FILL THAT IS PERMANENTLY STABILIZED TO PREVENT EROSION. THE PLASTIC LINER SHALL BE PLACED WITH EACH CLEANING OF THE WASHOUT FACILITY. INSPECT THE PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGED ARE TAKING PLACE IN NON-DESIGNATED AREAS.

DATE ITEM

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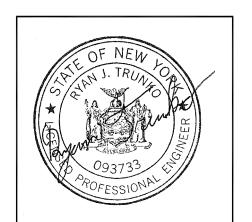
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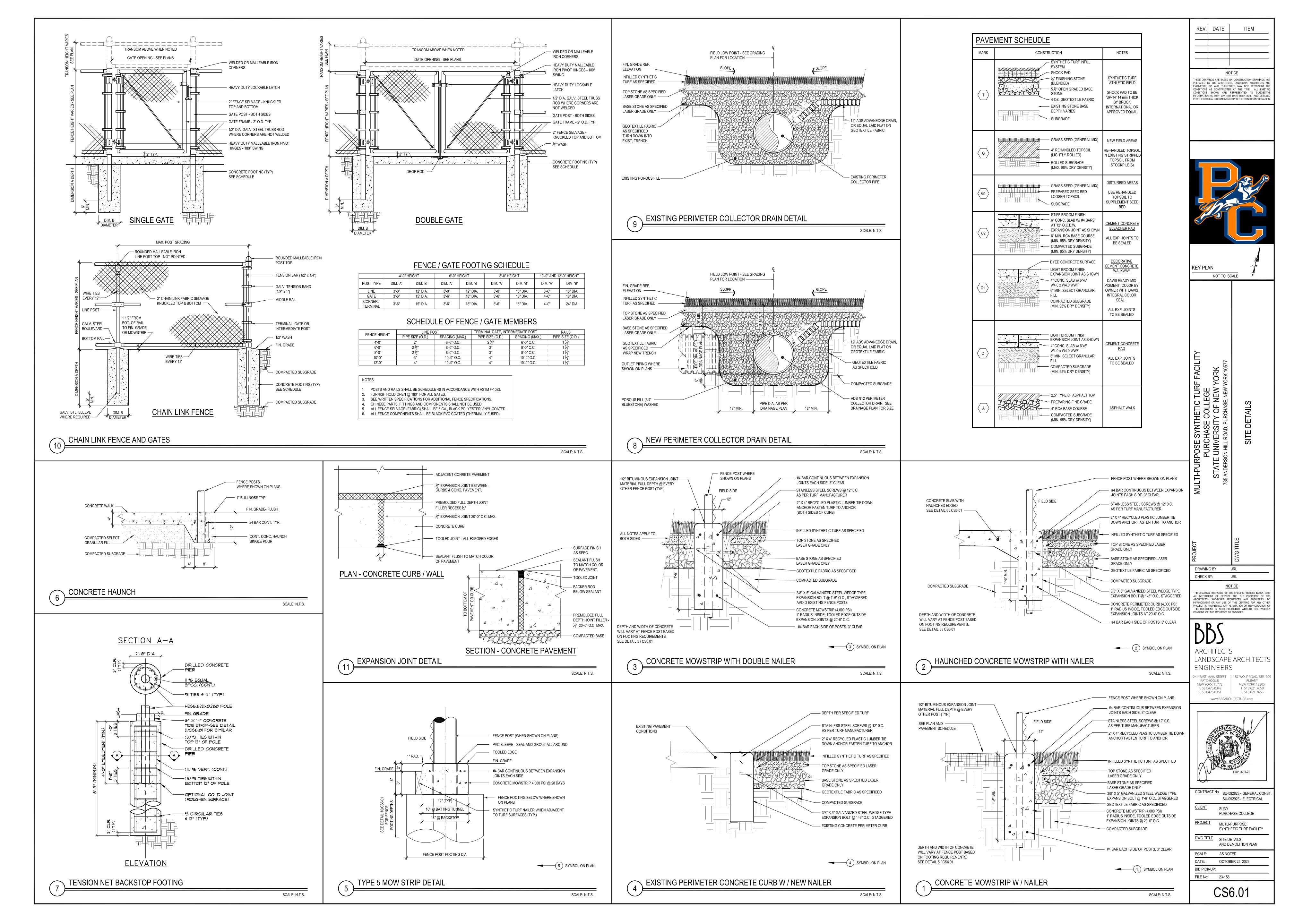
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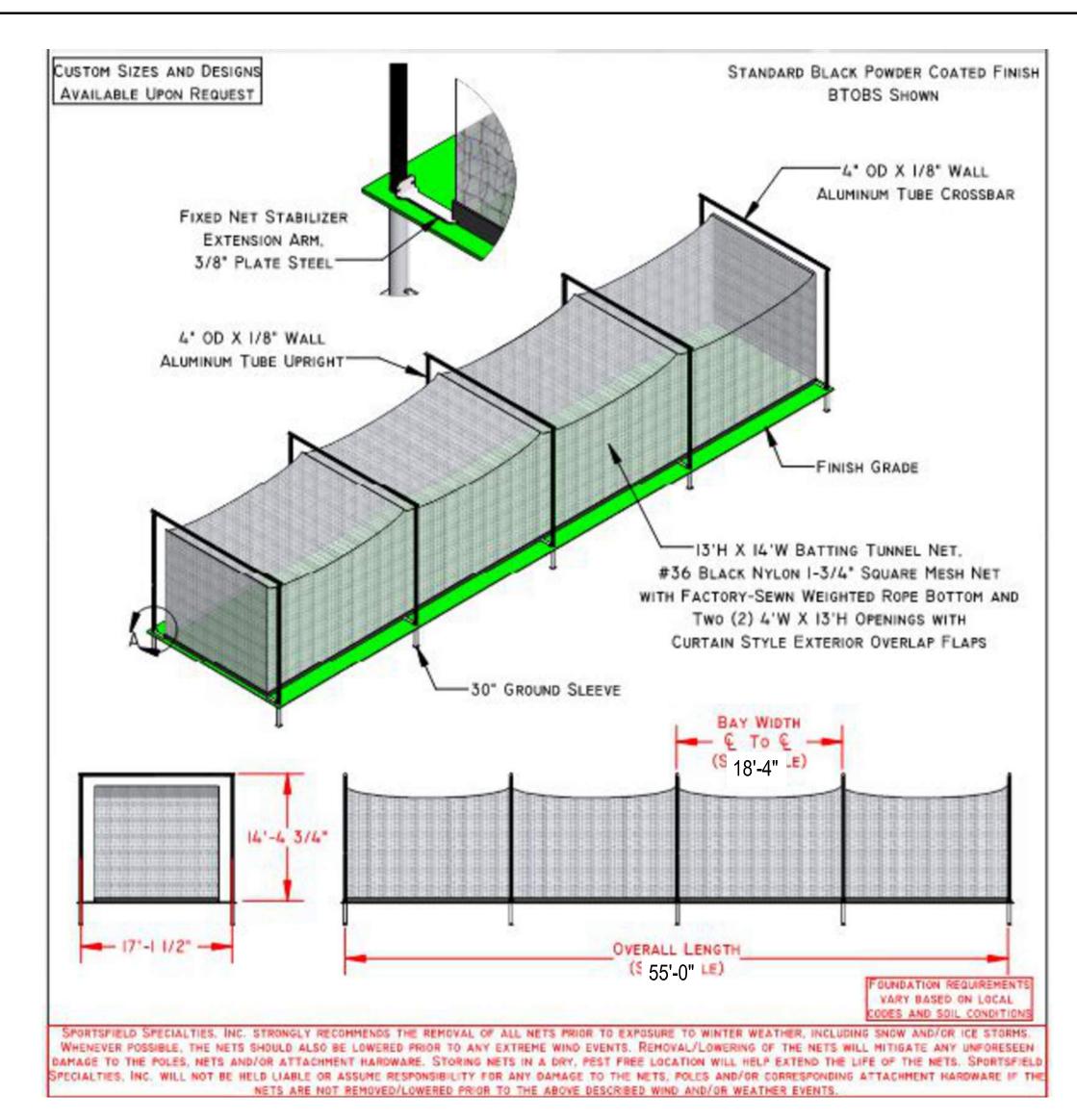
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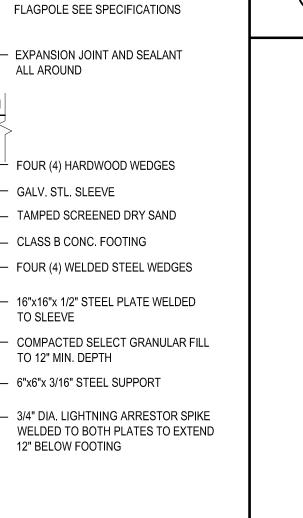
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PIPE TRENCH DETAIL (TYPICAL) CS 4.53 SCALE: NOT TO SCALE

CS 4.53 SCALE: NOT TO SCALE

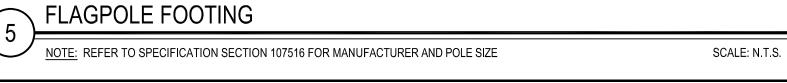






· INTERNAL HALYARD ALUMINUM

FIN. GRADE FLUSH



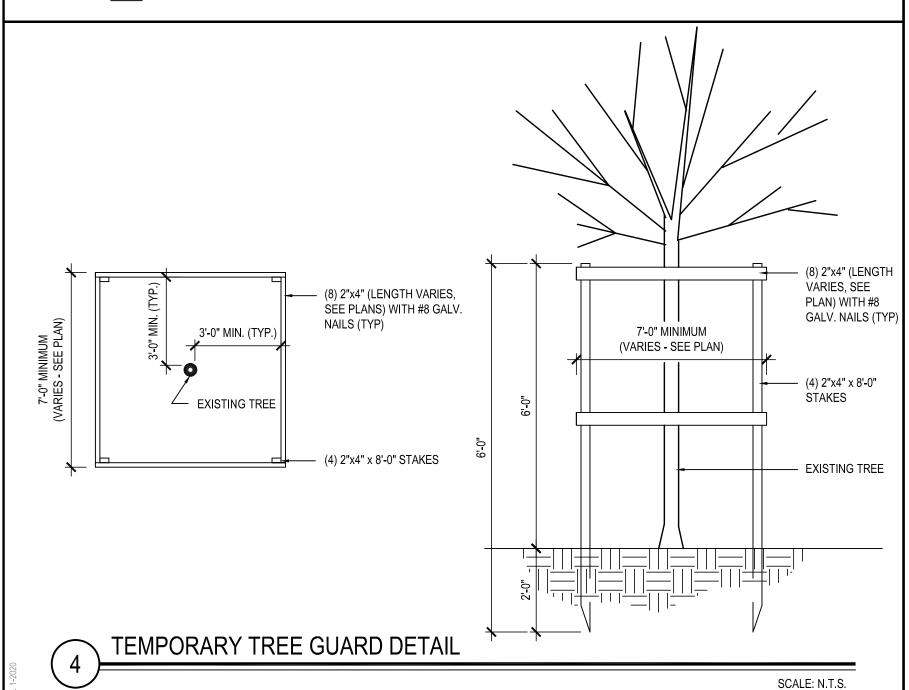
SECTION 'A'

FLASH COLLAR -

(OVER WEDGE) ——

SEALANT

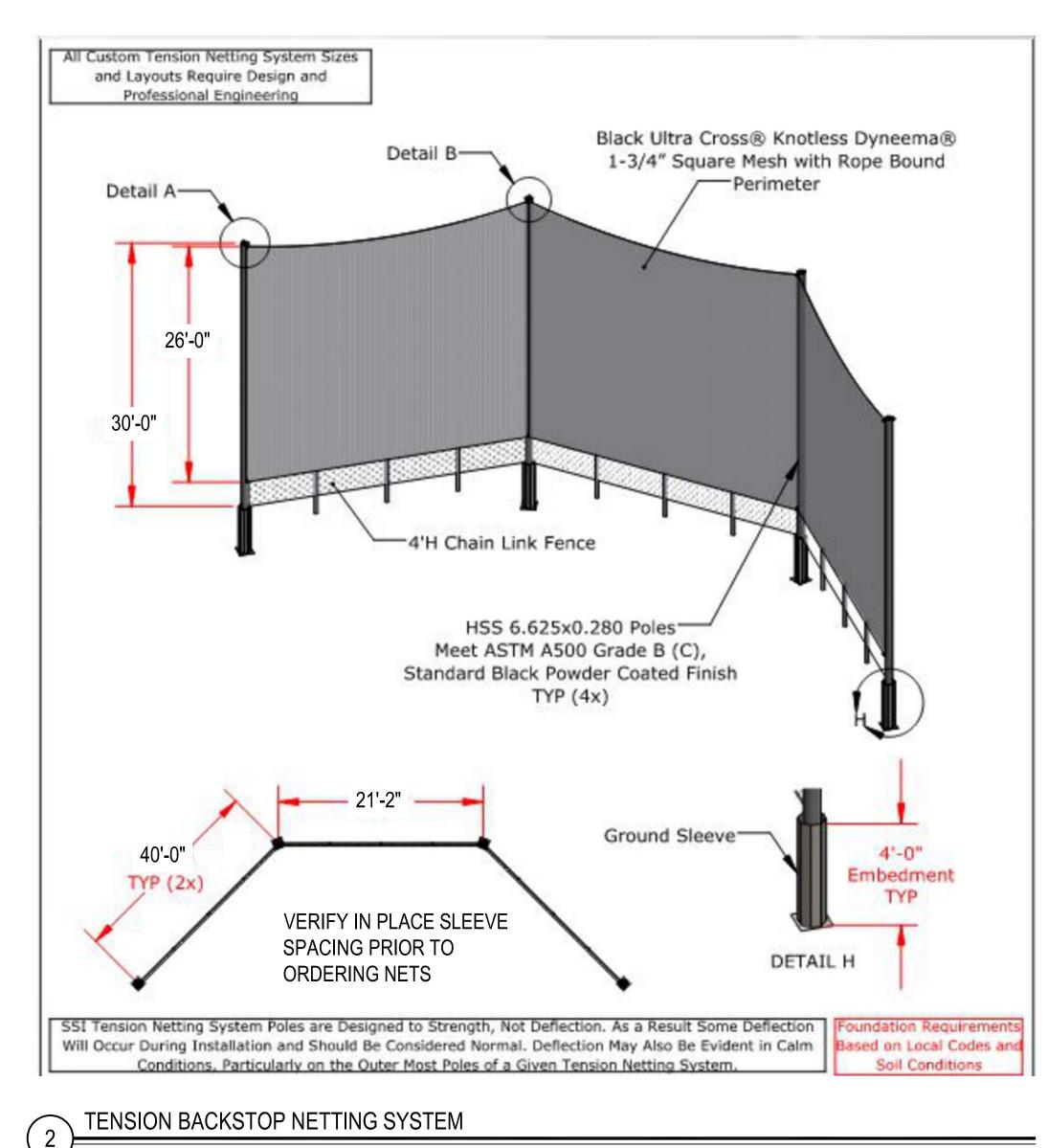
- CONCRETE FOOTING



BATTING TUNNEL

SPORTSFIELD SPECIALTIES OR APPROVED EQUAL

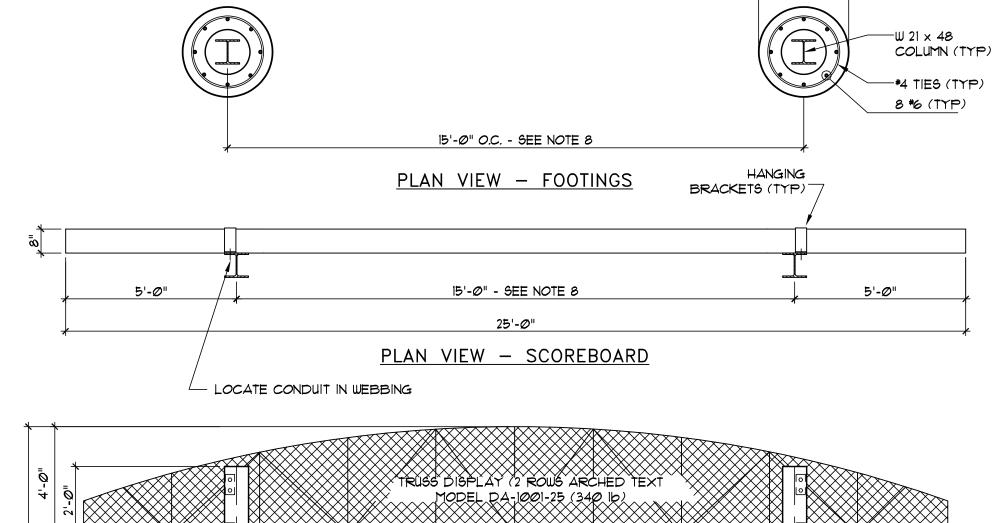
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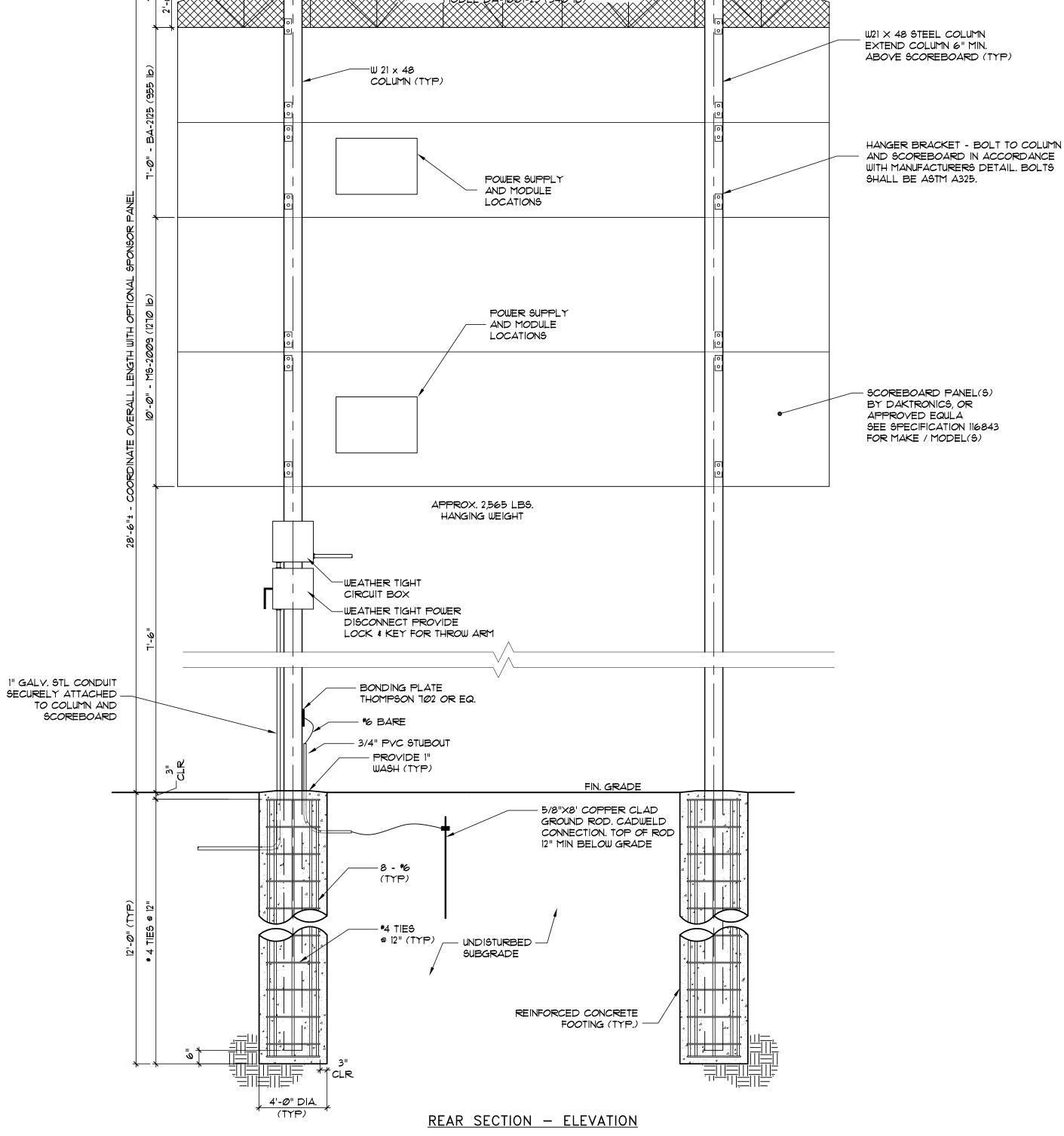


SPORTSFIELD SPECIALTIES OR APPROVED EQUAL

#### SCOREBOARD GENERAL NOTES:

- 1. CONCRETE TO BE 4,500 PSI @ 28 DAYS.
- 2. REINFORCING STEEL: GRADE 60. SHALL CONFORM TO ASTM A615
- 3. COLUMN STEEL GRADE: A992 (50 KSI STEEL MIN.)
- 4. MINIMUM BOLT GRADE: A307
- 5. POLES TO BE TEMPORARILY SUPPORTED DURING CONCRETE PLACEMENT AND SUPPORTED UNTIL SCOREBOARDS ARE INSTALLED.
- 6. FOOTING AND DIMENSIONS ARE MINIMUM. ALL FINAL DIMENSIONS SHALL BE COORDINATED WITH THE MANUFACTURER ENGINEERS REQUIREMENTS.
- 1. SUPPORT POST DESIGN CRITERIA: WIND EXPOSURE C, DESIGN WIND, 103 MPH, ULTIMATE 130 MPH.
- 8. VERIFY ALL DIMENSIONS WITH MANUFACTURERS DRAWINGS.
- 9. STRUCTURAL STEEL TO CONFORM TO ASTM A-572, Fy = 50 KSI AND SHALL BE FABRICATED TO THE LATEST EDITION OF THE A.I.S.C. STEEL CONSTRUCTION MANUAL.
- 10. FIELD BOLT CONNECTIONS TO BE ASTM A325 HIGH STRENGTH BOLTS.
- 11. FOOTINGS INSTALLED IN GROUNDWATER SHALL BE DEWATERED DURING CONCRETE PLACEMENT OPERATIONS. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE METHOD WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION AND WHEN THE FREE DROP EXCEEDS 6'-0".





SCOREBOARD DETAIL

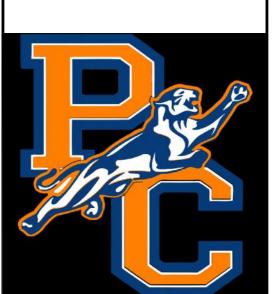
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NOTE: FOOTING AND SUPPORT POST INSTALLATION IS BY THE GC. ALL OTHER WORK IS BY THE EC.

REV. DATE ITEM

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ROAD, PURCHASE, NEW YORK 10577
SITE DETAILS

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DRAWING BY: JRL

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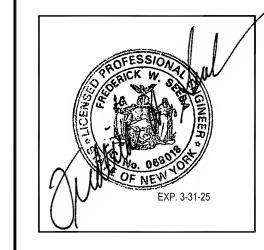
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CONTRACT No. SU-092823 - GENERAL CONST. SU-092923 - ELECTRICAL

CLIENT SUNY PURCHASE COLLEGE

PROJECT MUTLI-PURPOSE SYNTHETIC TURF FACILITY

DWG TITLE SITE DETAILS AND DEMOLITION PLAN

SCALE: AS NOTED

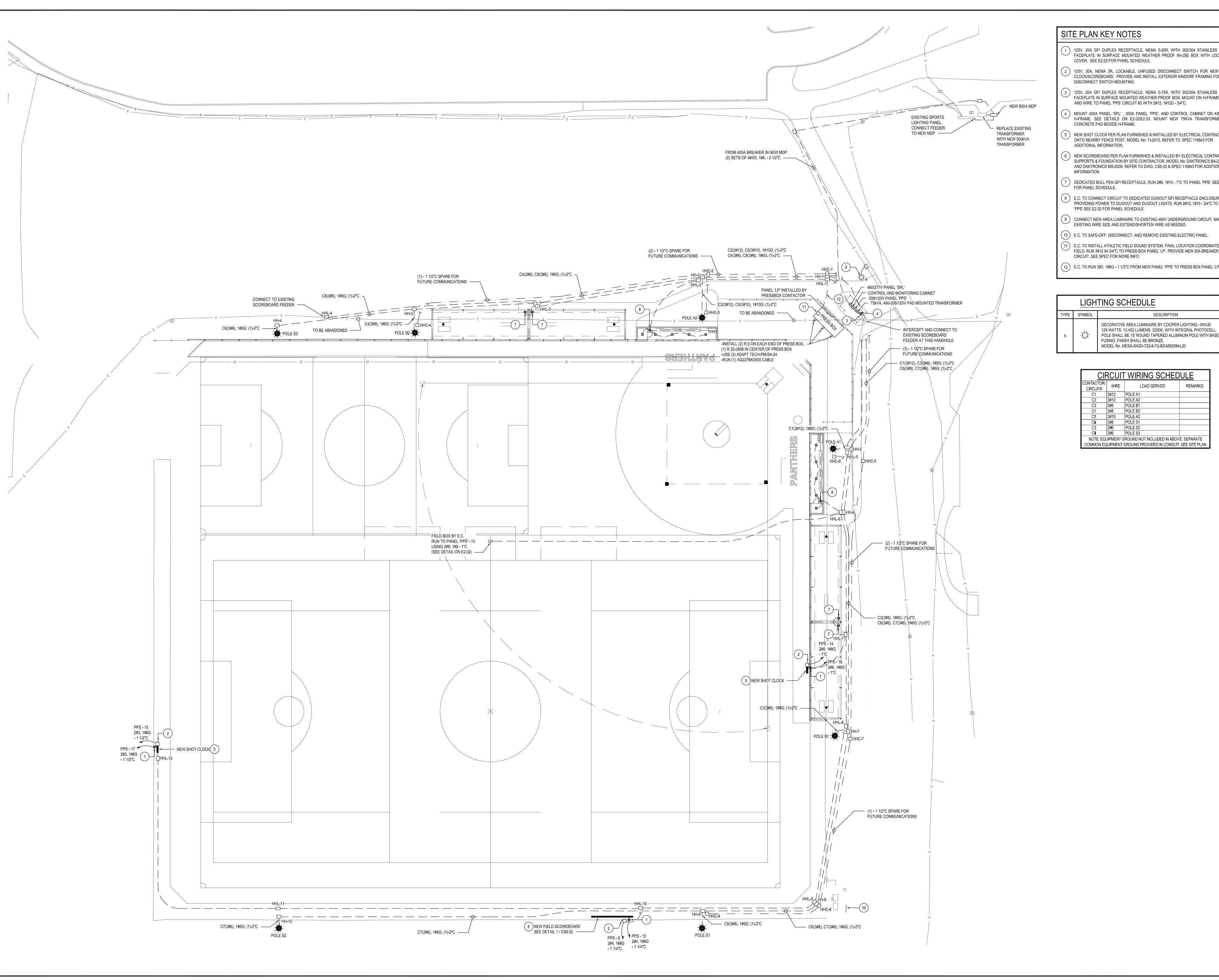
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FILE No: 23-158

SCALE: N.T.S.

CS6.02



#### SITE PLAN KEY NOTES

- 125V, 20A GFI DUPLEX RECEPTACLE, NEMA 5-20R, WITH 302/304 STAINLESS STEEL FACEPLATE IN SURFACE MOUNTED WEATHER PROOF IN-USE BOX WITH LOCKABLE COVER. SEE E2.02 FOR PANEL SCHEDULE.
- ) 120V, 30A, NEMA 3R, LOCKABLE, UNFUSED DISCONNECT SWITCH FOR NEW SHOT CLOCK/SCOREBOARD. PROVIDE AND INSTALL EXTERIOR KINDORF FRAMING FOR NEW
- DISCONNECT SWITCH MOUNTING. ) 125V, 20A GFI DUPLEX RECEPTACLE, NEMA 5-15R, WITH 302/304 STAINLESS STEEL FACEPLATE IN SURFACE MOUNTED WEATHER PROOF BOX. MOUNT ON H-FRAME RACK
- AND WIRE TO PANEL 'PPS' CIRCUIT #3 WITH 2#12, 1#12G 3/4"C. ) MOUNT 400A PANEL 'SPL', 200A PANEL 'PPS', AND CONTROL CABINET ON KINDORF H-FRAME. SEE DETAILS ON E2.02/E2.03. MOUNT NEW 75KVA TRANSFORMER ON
- CONCRETE PAD BESIDE H-FRAME. 5 ) NEW SHOT CLOCK PER PLAN FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR
- NEW SCOREBOARD PER PLAN FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR; SUPPORTS & FOUNDATION BY SITE CONTRACTOR. MODEL No: DAKTRONICS BA-2125 AND DAKTRONICS MS-2009. REFER TO DWG. CS6.02 & SPEC 116843 FOR ADDITIONAL
- DEDICATED BULL PEN GFI RECEPTACLE. RUN 2#8, 1#10 1"C TO PANEL 'PPS'. SEE E2.02 FOR PANEL SCHEDULE.
- (8) E.C. TO CONNECT CIRCUIT TO DEDICATED DUGOUT GFI RECEPTACLE ENCLOSURE PROVIDING POWER TO DUGOUT AND DUGOUT LIGHTS. RUN 2#10, 1#10 - 3/4"C TO PANEL 'PPS' SEE E2.02 FOR PANEL SCHEDULE.
- (9) CONNECT NEW AREA LUMINAIRE TO EXISTING 480V UNDERGROUND CIRCUIT. MATCH EXISTING WIRE SIZE AND EXTEND/SHORTEN WIRE AS NEEDED.
- (10) E.C. TO SAFE-OFF, DISCONNECT, AND REMOVE EXISTING ELECTRIC PANEL.
- 11 ) E.C. TO INSTALL ATHLETIC FIELD SOUND SYSTEM. FINAL LOCATION COORDINATED IN FIELD. RUN 3#12 IN 3/4"C TO PRESS BOX PANEL 'LP'. PROVIDE NEW 20A BREAKER FOR CIRCUIT. SEE SPEC FOR MORE INFO.
- (12) E.C. TO RUN 3#3, 1#8G 1 1/2"C FROM NEW PANEL 'PPS' TO PRESS BOX PANEL 'LP'.

| LIGH | ITING | SCHE | DUL |
|------|-------|------|-----|
|      |       |      |     |

| TYPE | SYMBOL     | DESCRIPTION   |
|------|------------|---|
| А    | $\Diamond$ | DECORATIVE AREA LUMINAIRE BY COOPER LIGHTING - INVUE 129 WATTS, 13,452 LUMENS, 2200K, WITH INTEGRAL PHOTOCELL POLE SHALL BE 15' ROUND TAPERED ALUMINUM POLE WITH BAS FUSING. FINISH SHALL BE BRONZE. MODEL No. MESA-SA2D-722-8-T2-BZ-MS/DIM-L20 |

| CIRCUIT WIRING SCHEDULE |           |                            |                 |  |  |  |
|-------------------------|-----------|----------------------------|-----------------|--|--|--|
| CONTACTOR/<br>CIRCUIT#  | WIRE      | LOAD SERVED                | REMARKS         |  |  |  |
| C1                      | 3#12      | POLE A1                    |                 |  |  |  |
| C2                      | 3#12      | POLE A2                    |                 |  |  |  |
| C3                      | 3#8       | POLE B1                    |                 |  |  |  |
| C1                      | 3#8       | POLE B2                    |                 |  |  |  |
| C5                      | 3#10      | POLE A2                    |                 |  |  |  |
| C <b>5</b>              | 3#8       | POLE S1                    |                 |  |  |  |
| C3                      | 3#6       | POLE S2                    |                 |  |  |  |
| C3                      | 3#6       | POLE S3                    |                 |  |  |  |
| NOTE: EQI               | JIPMENT G | ROUND NOT INCLUDED IN ABOV | E. SEPARATE     |  |  |  |
| COMMON EC               | UIPMENT   | GROUND PROVIDED IN CONDUIT | . SEE SITE PLAN |  |  |  |

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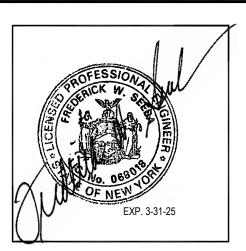
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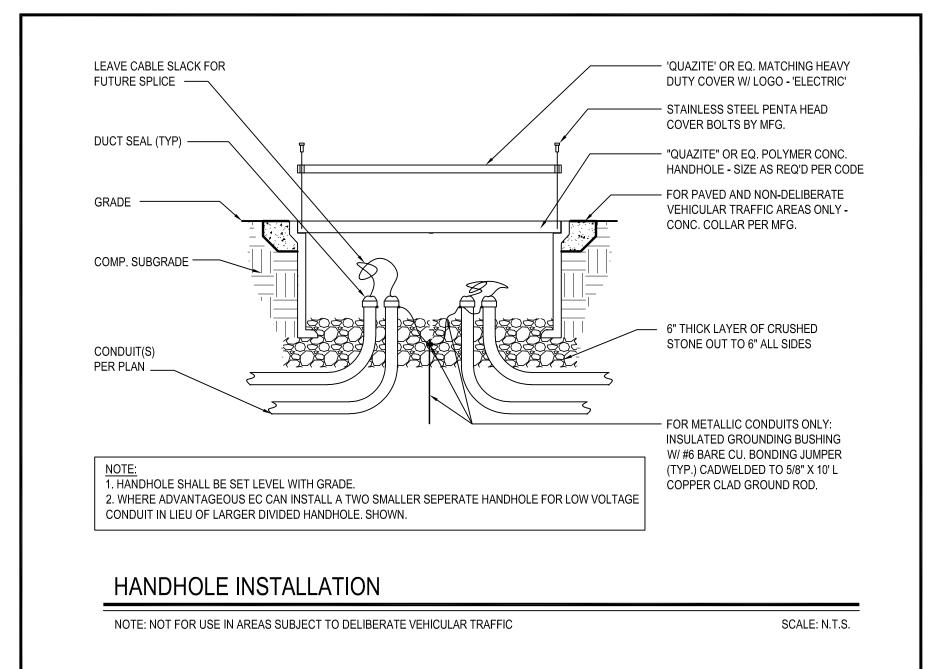
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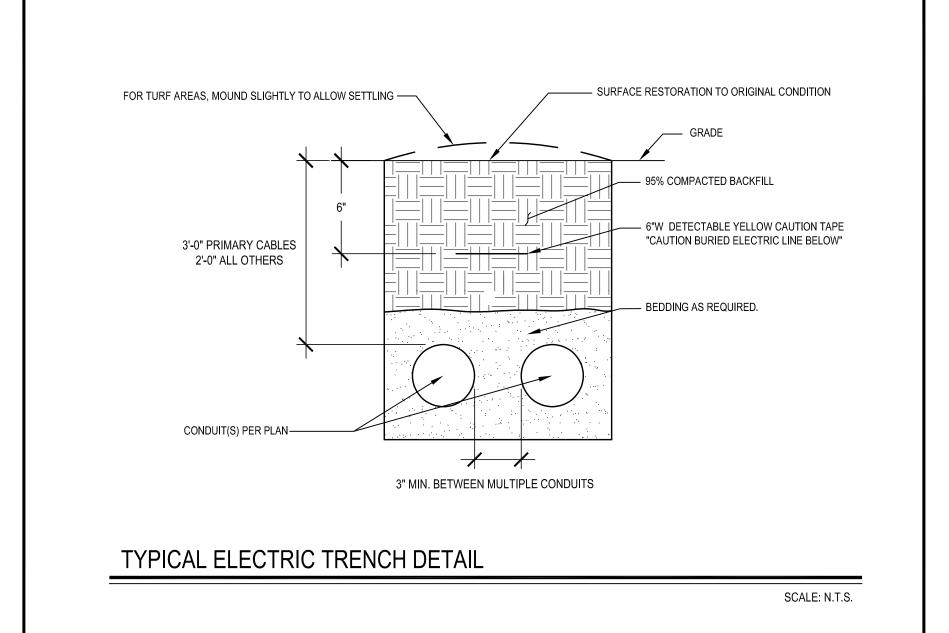
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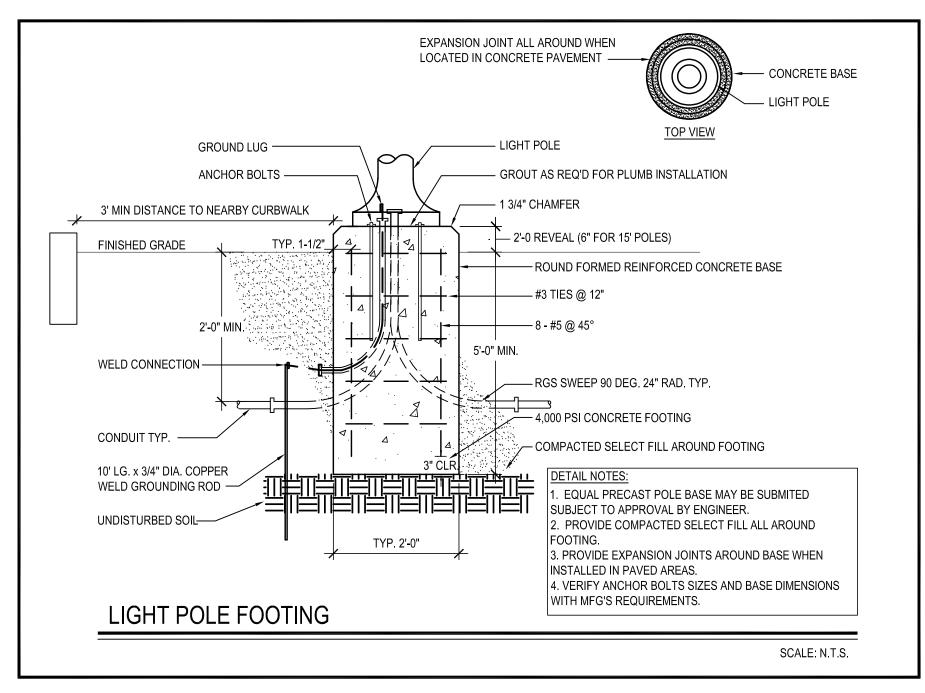
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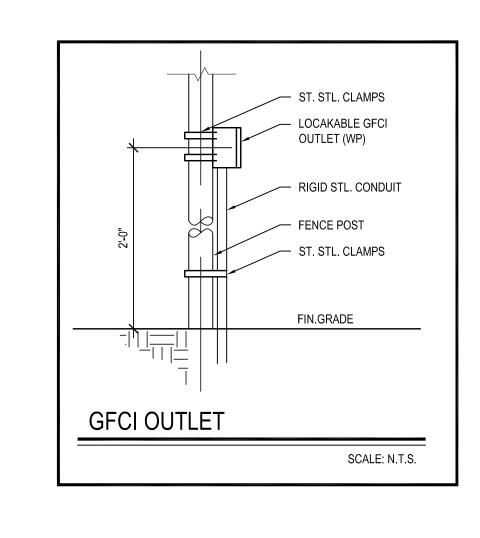
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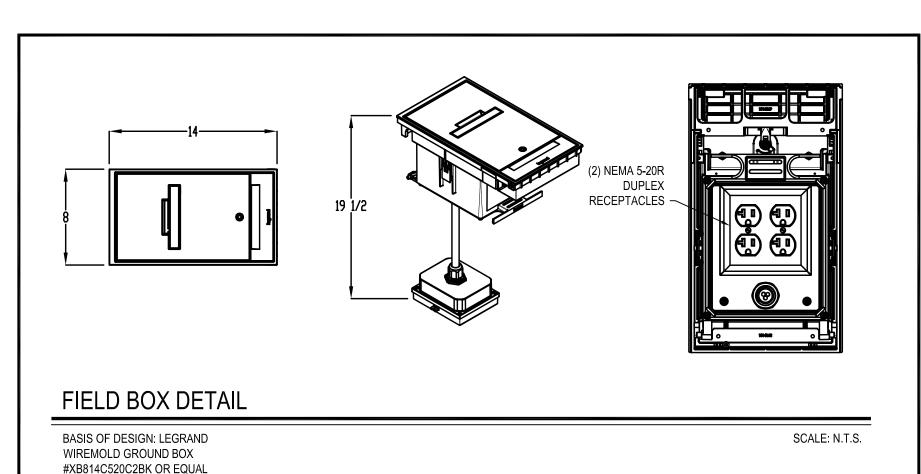
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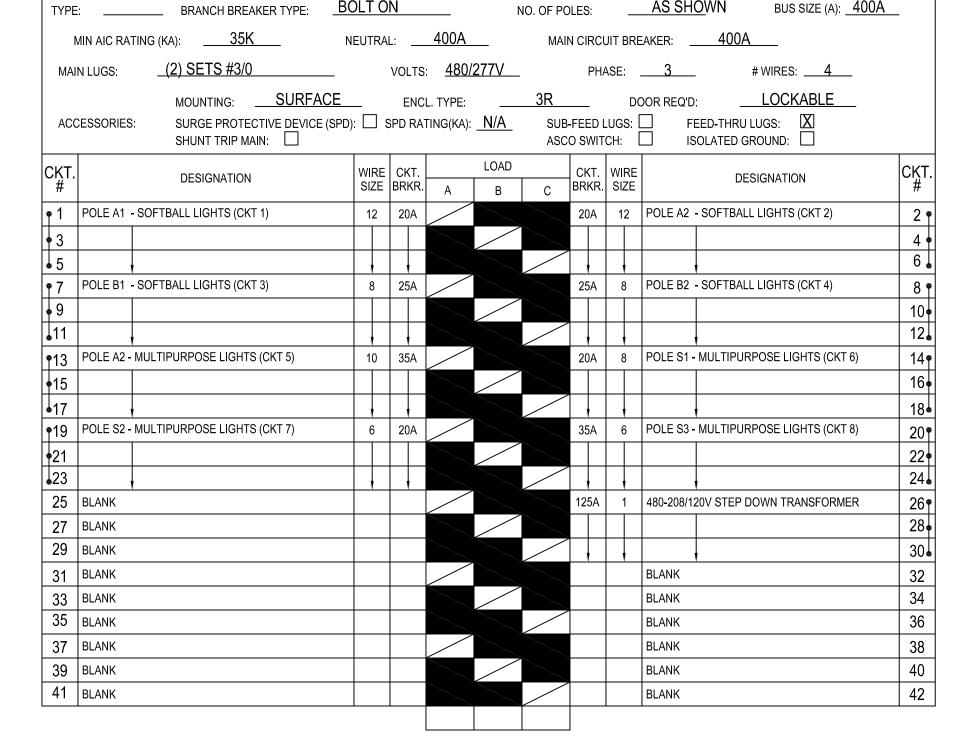


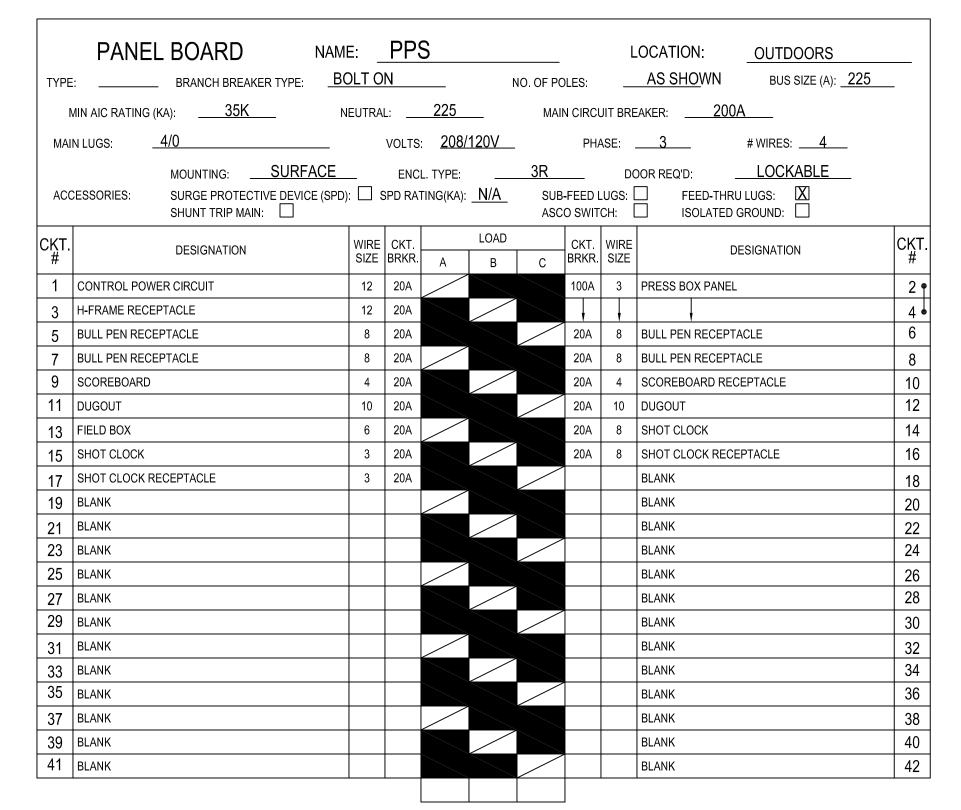


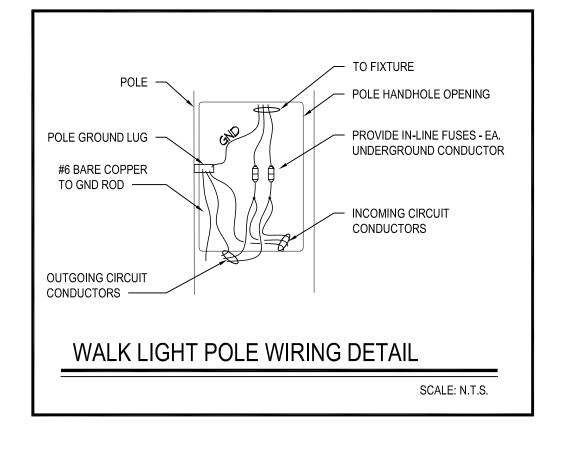




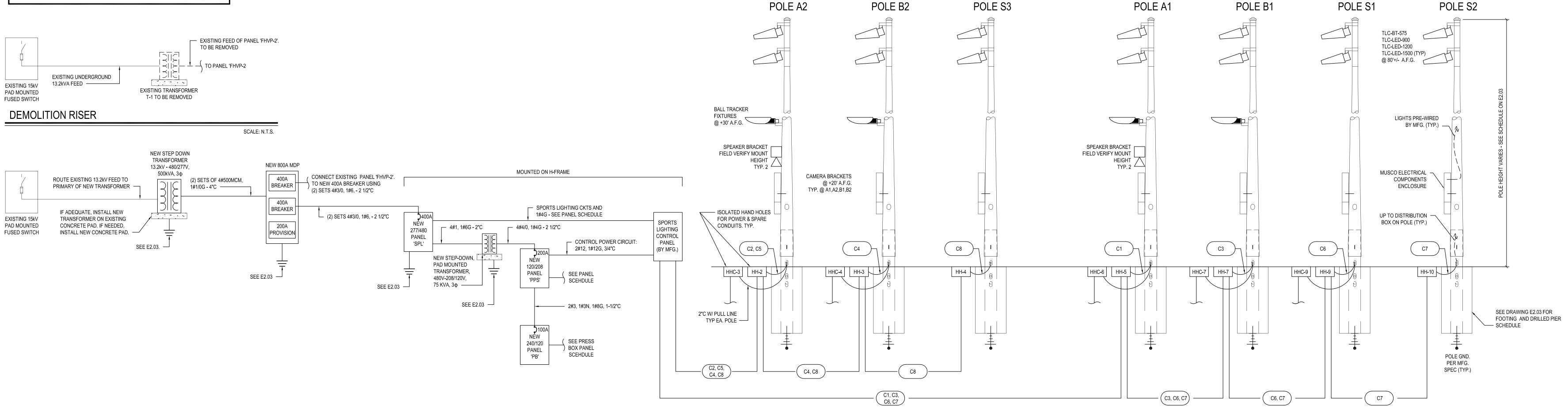








SPORTS LIGHTING RISER



MULTI-PURPOSE SYNTHETIC TURF FACILITY
PURCHASE COLLEGE
STATE UNIVERSITY OF NEW YORK
735 ANDERSON HILL ROAD, PURCHASE, NEW YORK 10577

ELECTRICAL SITE DETAILS

REV. DATE

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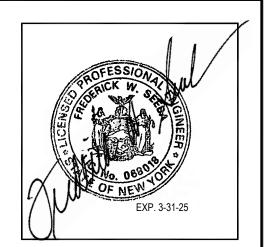
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PROJECT MUTLI-PURPOSE
SYNTHETIC TURF FACILITY

DWG TITLE ELECTRICAL SITE DETAILS

SCALE: AS NOTED

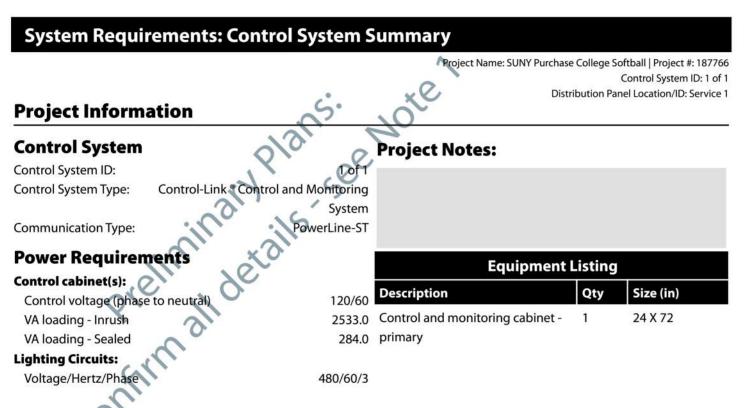
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FILE No: 23-158

E2.02

SCALE: N.T.S.



#### Important Notes:

- 1. Please confirm that the lighting circuit voltage listed above is accurate for this facility. This is the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate voltage/phase can
- result in additional costs and delays. Contact your Musco sales representative to confirm this item. 2. In a 3 phase design, all 3 phases are to be run to each pole location. Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
- 3. One contactor is required for each circuit at each pole location. Contactors are 3 pole and 100% rated for the published continuous load.
- 4. If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
- 5. Size overcurrent devices using the full load amps column of the Circuit Summary by Switch chart (Minimum power factor is 0.9). Size conduit per code unless otherwise specified as larger to allow for harness connectors.
- 6. Avoid use of in-ground junction/pull boxes when possible. If used, all wire connectors must be UL listed for Wet Locations to
- 7. Control power wiring must be in separate conduit from line or load power wiring. Communication cables must be in separate conduit from any power wiring.
- 8. Refer to Installation Instructions for more details on equipment information and the installation requirements.

Sales Representative: David Kulis JR | Project Engineer: Kelly Martin | Scan: 187766A | Document ID: 187766P1V1-0718082039 www.musco.com | lighting@musco.com Page 1 of 3 -- 18-July-2023

#### System Requirements: Control System Summary

Project Name: SUNY Purchase College Softball | Project #: 187766 Control System ID: 1 of 1 Distribution Panel Location/ID: Service 1

Lighting Circuit Voltage: 480/60/3

# Circuit Summary

MUSCO.

MUSCO.

| Switching Sch            | edule    |
|--------------------------|----------|
| Field/Switch Description | Switches |
| Softball                 | 1        |
| Multipurpose             | 2        |

# **Control Module ID: 1**

|        |                  | Circui  | it Summary         | by Switch         |                          |           |                 |
|--------|------------------|---------|--------------------|-------------------|--------------------------|-----------|-----------------|
| Switch | Zone Description | Pole ID | Qty of<br>Fixtures | Full load amperes | Contactor<br>Size (Amps) | Cabinet # | Contactor<br>ID |
| 1      | Softball         | A1      | 6                  | 8.41              | 30                       | 1         | C1              |
|        | Softball         | A2      | 6                  | 8.41              | 30                       | 1         | C2              |
|        | Softball         | B1      | 10                 | 19.57             | 30                       | 1         | C3              |
|        | Softball         | B2      | 10                 | 19.57             | 30                       | 1         | C4              |
| 2      | Multipurpose     | A2      | 11                 | 25.15             | 30                       | 1         | C5              |
|        | Multipurpose     | S1      | 7                  | 15.72             | 30                       | 1         | C6              |
|        | Multipurpose     | S2      | 7                  | 15.72             | 30                       | 1         | C7              |
|        | Multipurpose     | S3      | 12                 | 25.15             | 30                       | 1         | C8              |
|        |                  |         |                    |                   |                          |           |                 |

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# System Requirements: Control System Summary Project Name: SUNY Purchase College Softball | Project #: 187766 Control System ID: 1 of 1 Distribution Panel Location/ID: Service 1 **Equipment Layout and Connection Details** Lighting system Control cabinet location

---**Connection Details** Equipment

1a Line power to contactors, and equipment grounding conductor. Requires one 1 Control and monitoring cabinet circuit per contactor, size wiring per load and voltage drop.

1b Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.

2a Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

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#### SUNY Purchase College Softball

#### **Lighting System**

| Pole ID | e Summary Pole Height | Mtg Height | Fixture Qty | Luminaire Type | Load     | Circuit |
|---------|-----------------------|------------|-------------|----------------|----------|---------|
| A1      | 60'                   | 60'        | 2           | TLC-LED-1200   | 2.34 kW  | A       |
| - Ai    | - 00                  | 1000       |             |                |          |         |
|         |                       | 60'        | 2           | TLC-LED-900    | 1.76 kW  | A       |
|         |                       | 30'        | 2           | TLC-BT-575     | 1.15 kW  | A       |
| A2      | 100'                  | 100'       | 11          | TLC-LED-1500   | 15.51 kW | В       |
|         |                       | 30'        | 2           | TLC-BT-575     | 1.15 kW  | Α       |
|         |                       | 60'        | 2           | TLC-LED-1200   | 2.34 kW  | Α       |
|         |                       | 60'        | 2           | TLC-LED-900    | 1.76 kW  | A       |
| B1-B2   | 80'                   | 80'        | 7           | TLC-LED-1500   | 9.87 kW  | Α       |
|         |                       | 16'        | 2           | TLC-BT-575     | 1.15 kW  | A       |
|         |                       | 50'        | 1           | TLC-LED-1200   | 1.17 kW  | Α       |
| S1-S2   | 80'                   | 80,        | 7           | TLC-LED-1500   | 9.87 kW  | В       |
| S3      | 100'                  | 100'       | 2           | TLC-LED-1200   | 2.34 kW  | В       |
|         |                       | 100'       | 10          | TLC-LED-1500   | 14.10 kW | В       |
| 7       | Ì                     |            | 69          |                | 86.57 kW |         |

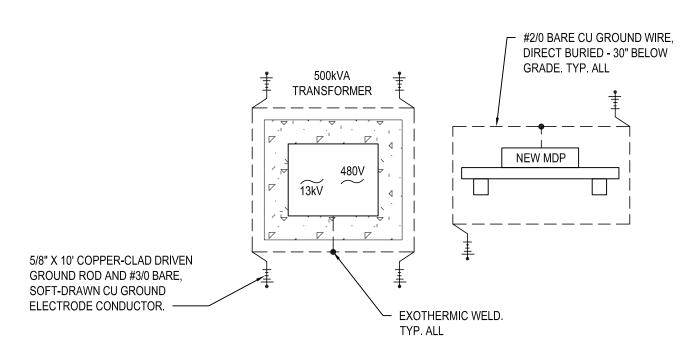
| Circuit         | Description  | Load     | Fixture Qty |   |
|-----------------|--------------|----------|-------------|---|
| A               | Softball     | 34.88 kW | 32          |   |
| В               | Multipurpose | 51.69 kW | 37          |   |
| 1.00            |              |          |             | _ |
| kture Type Sumr | nary         |          |             |   |

| Type                    | Source             | vvattage | Lumens  | L L90    | L80      | 100 |
|-------------------------|--------------------|----------|---------|----------|----------|-----|
| TLC-LED-1200            | LED 5700K - 75 CRI | 1170W    | 150,000 | >120,000 | >120,000 | >12 |
| TLC-LED-1500            | LED 5700K - 75 CRI | 1410W    | 181,000 | >120,000 | >120,000 | >13 |
| TLC-LED-900             | LED 5700K - 75 CRI | W088     | 104,000 | >120,000 | >120,000 | >1  |
| TLC-BT-575              | LED 5700K - 75 CRI | 575W     | 52,000  | >120,000 | >120,000 | >13 |
| Single Luminaire Ampera | ge Draw Chart      | l        |         | •        |          |     |

| Ì | Driver (.90 min power factor) | Ma          | x Lin       | e Amp       | erage       | Per Lu      | minai       | re  |
|---|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| İ | Single Phase Voltage          | 208<br>(60) | 220<br>(60) | 240<br>(60) | 277<br>(60) | 347<br>(60) | 380<br>(60) | 480 |
| Ì | TLC-LED-1200                  | 6.9         | 6.5         | 6.0         | 5.2         | 4.2         | 3.8         | 3.0 |
| Ì | TLC-LED-1500                  | 8.4         | 7.9         | 7.3         | 6.3         | 5.0         | 4.6         | 3.6 |
| Ì | TLC-LED-900                   | 5.2         | 4.9         | 4.5         | 3.9         | 3.1         | 2.9         | 2.3 |
| Ì | TLC-BT-575                    | 3.4         | 3.2         | 2.9         | 2.5         | 2.0         | 1.8         | 1.5 |
|   |                               |             |             |             |             |             |             |     |

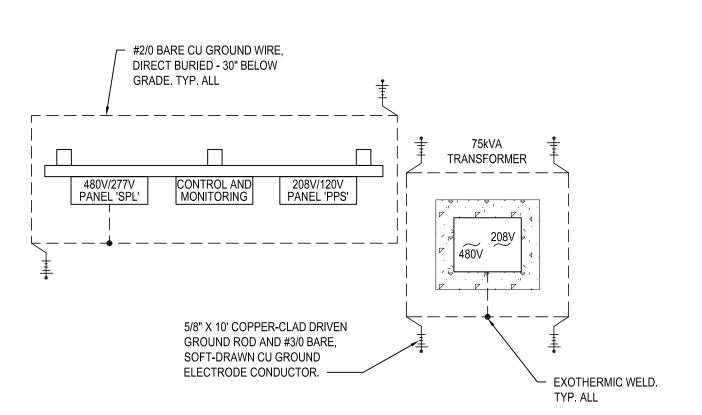
# Light Level Summary

| oulculation on a cultimary |                                 |              |      |      |         |         |          |              |
|----------------------------|---------------------------------|--------------|------|------|---------|---------|----------|--------------|
| Grid Name                  | Calculation Metric              | Illumination |      |      |         |         | Circuits | Fixture Qty  |
| Griu Name                  | Calculation Metric              | Ave          | Min  | Max  | Max/Min | Ave/Min | Circuits | Pixture City |
| Bullpens LF                | Horizontal                      | 50.6         | 42   | 63   | 1.47    | 1.21    | A        | 32           |
| Bullpens RF                | Horizontal                      | 46.3         | 37   | 57   | 1.55    | 1.25    | Α        | 32           |
| Field (Multipurpose)       | Horizontal Illuminance          | 46.4         | 21   | 61   | 2.89    | 2.21    | В        | 37           |
| Multipurpose               | Horizontal Illuminance          | 50.3         | 40   | 58   | 1.47    | 1.26    | В        | 37           |
| Softball Bleachers         | Horizontal                      | 21.5         | 8    | 41   | 5.16    | 2.69    | A        | 32           |
| Softball (Infield)         | Horizontal Illuminance          | 74           | 62   | 84   | 1.36    | 1.19    | Α        | 32           |
| Softball (Outfield)        | Horizontal Illuminance          | 53.6         | 35   | 78   | 2.22    | 1.53    | A        | 32           |
| Spill 150' (Cd)            | Max Candela (by Fixture)        | 4548         | 513  | 9830 | 19.15   | 8.86    | A,B      | 69           |
| Spill 150'                 | Horizontal Illuminance          | 0.09         | 0.01 | 0.35 | 65.34   | 8.72    | A,B      | 69           |
| Spill 150'                 | Max Vertical Illuminance Metric | 0.23         | 0.02 | 0.79 | 39.48   | 11.42   | A,B      | 69           |
| Youth Field                | Horizontal Illuminance          | 41.6         | 30   | 58   | 1.90    | 1.39    | В        | 37           |



### **EQUIPMENT GROUNDING DETAIL - NEW TRANSFORMER**

SCALE: NTS



# EQUIPMENT GROUNDING DETAIL - SITE LIGHTING & POWER

STEEL POLE BY

(SEE POLE ID)

MUSCO LIGHTING

BACKFILL PLACEMENT AND

CURING - S1 ONLY

DRILLED PIER DIAMETER

(SEE POLE FNDTN. SCH.)

POLE FOUNDATION ELEV.

PROCTOR TESTING (ASTM D698).

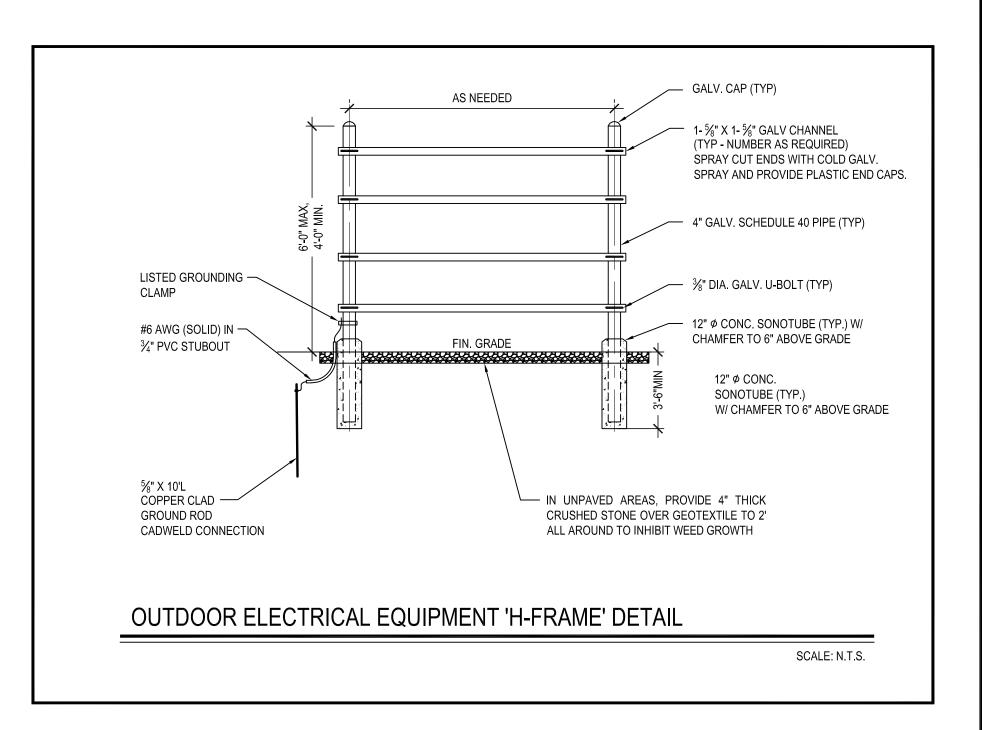
SOIL BACKFILL NOTE: THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH

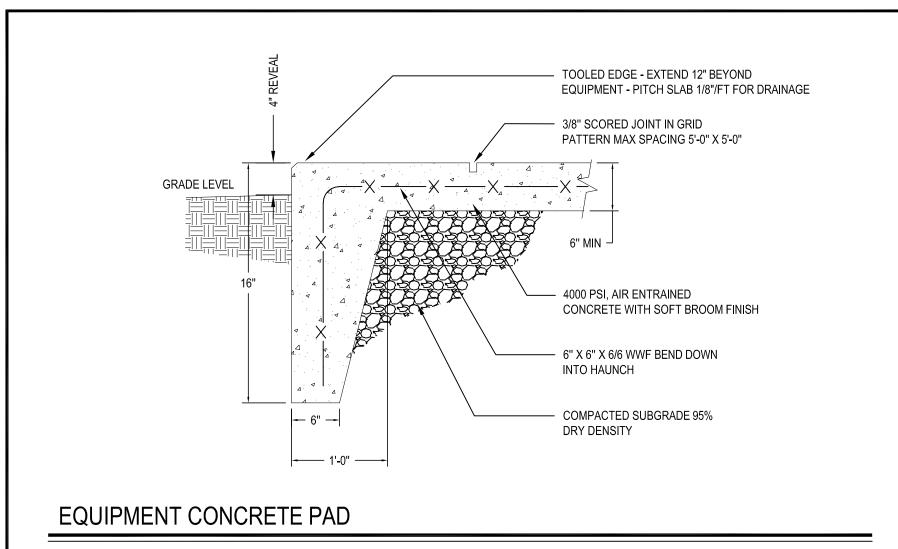
FOR A COHESIONLESS SOIL BASED UPON STANDARD

SOIL, WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR BETTER. COMPACTION, 95% FOR COHESIVE SOIL AND 98%

SCALE: NOT TO SCALE

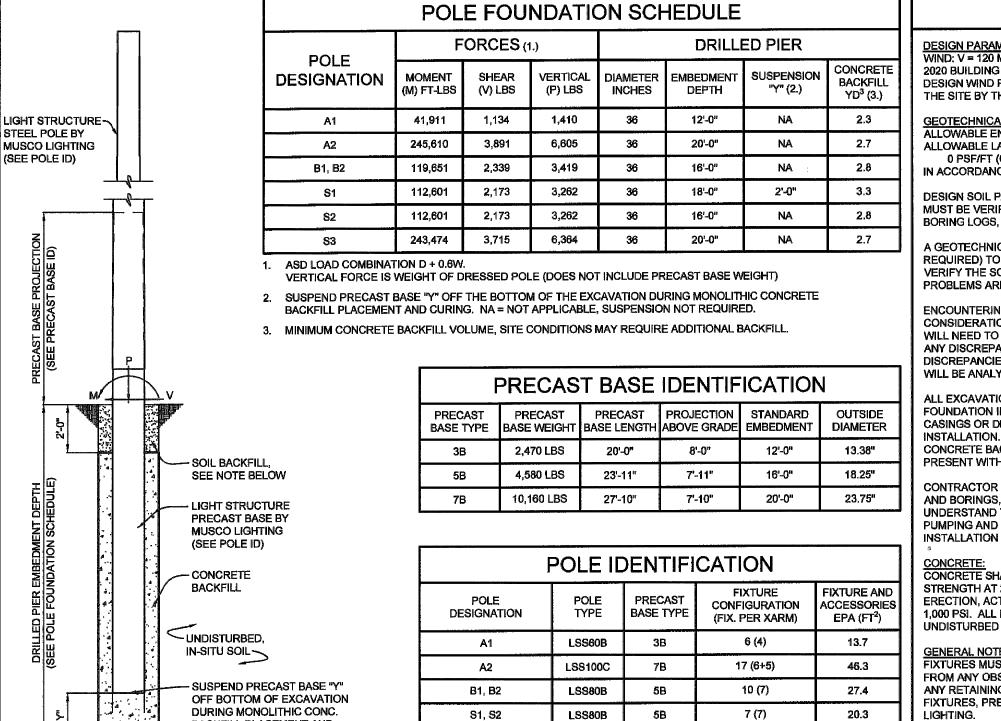
SCALE: NTS







**DESIGN NOTES** 



LSS100C 7B

- POLES B1 & B2 HAVE (1) MUSCO LED FIXTURE AT 50'-0" AGL INCLUDED ABOVE.

- POLES A1 & A2 HAVE (2) MUSCO LED FIXTURES AT 30'-0" AGL INCLUDED ABOVE.

- POLES B1 & B2 HAVE (2) MUSCO LED FIXTURES AT 15'-6" AGL INCLUDED ABOVE.

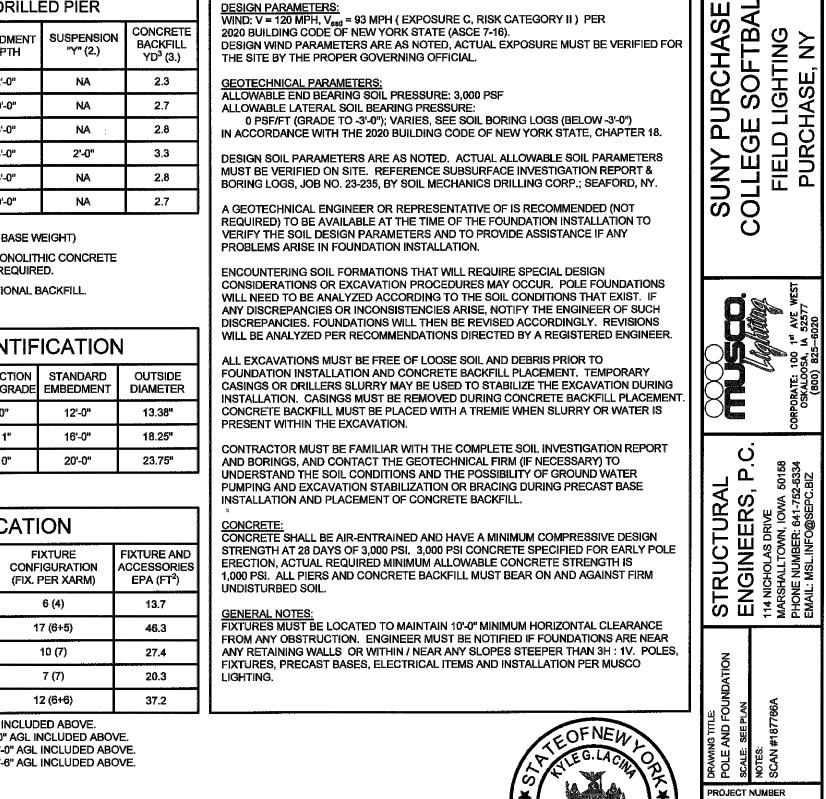
- POLE A2 HAS (4) MUSCO LED FIXTURES AT 60'-0" AGL INCLUDED ABOVE.

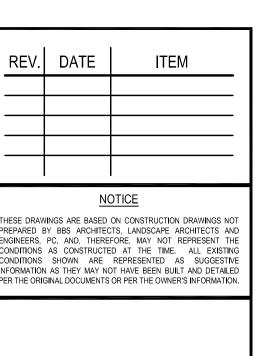
**S**3

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12 (6+6)

37.2





NOT TO SCALE

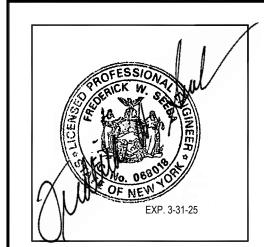
KEY PLAN

POSE SYNTH PURCHASE (E UNIVERSITY)

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CONTRACT No. SU-092823 - GENERAL CONST SU-092923 - ELECTRICAL <u>CLIENT</u> SUNY PURCHASE COLLEGE <u>PROJECT</u> MUTLI-PURPOSE SYNTHETIC TURF FACILITY DWG TITLE ELECTRICAL SITE DETAILS

SCALE: AS NOTED DATE: OCTOBER 25, 2023 BID PICK-UP: FILE No: 23-158

187766

7 SEPTEMBER 2023