

DEMOLITION NOTES

1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND MEMBERS OF THE LOWER LEVELS.
3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.
6. BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.
7. LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
8. PROTECT INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).
9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING, ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT OR BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY SUB-STRUCTURE EXISTS. ANY SUB-STRUCTURE, INCLUDING BASEMENTS SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.
10. ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL NOT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.
11. REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENT AUTHORITIES.
12. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO INSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENT REGULATIONS.
13. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
14. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
15. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEO-TECHNICAL REPORT, CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL PRIOR TO PLACEMENT OF FILL MATERIALS. UNDERTAKE ALL NECESSARY ACTION IN ORDER TO INSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, AND DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 98% OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE.
16. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, AND SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
17. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO INSURE THE CONTINUATION OF SERVICE.
18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTION REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS NECESSARY.

NOTES

1. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE-CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND SHUT-OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.
4. ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.

UTILITY NOTES

1. LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICES CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT POINT OF CONNECTION AND PROGRESS UP GRADIENT. INTERFERENCE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIPES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY ONE-CALL NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SIZES TO BE DETERMINED BY ARCHITECT.
4. WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
5. ALL WATER MAIN SHALL BE CEMENT-LINED, CLASS 52 DUCTILE IRON PIPE UNLESS OTHERWISE DESIGNATED.
6. THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH.
7. SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY WHERE THIS IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 6 INCHES BELOW THE WATER MAIN. ALL SEWER MAINS SHALL BE 30" SDR 35 PVC PIPE UNLESS OTHERWISE DESIGNATED.
8. ALL SEWER PIPE INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 20 FEET OF COVER OR WITHIN 18 INCHES OF A WATER MAIN, SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT-LINED, CLASS 52 PIPE, FURNISHED WITH SENEW-COAT OR APPROVED EQUAL.
9. WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10' DEEP AT CONNECTION TO THE SEWER MAIN, CONCRETE DEEP LATERAL CONNECTIONS ARE TO BE UTILIZED.
10. LOCATION & LAYOUT OF GAS, ELECTRIC & TELECOMMUNICATION UTILITY LINES AND SERVICES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ACTUAL LOCATION & LAYOUT OF THESE UTILITIES & SERVICES ARE TO BE PER THE APPROPRIATE UTILITY PROVIDER.
11. ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITIES' RULES AND REGULATIONS.
12. ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
13. MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS III, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-607, CLASS HE-III, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORM WATER PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND NOTES OR REFORCED FIBERGLASS JOINT SEWERS IN ACCORDANCE WITH ASTM C 900 TO BE UTILIZED TO PROVIDE A SILENT-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATER-TIGHT AND CONFORM TO ASTM C-43.
14. HOPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH AN ILLAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2206. SOLID PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2206 AND ASTM D3121. PERFORATED PIPE SHALL HAVE GASKETED SILENT-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2206 AND ASTM F477. HOPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HOPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURE RECOMMENDATIONS.
15. PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.
16. FIELD VERIFY THAT THE EXISTING WATER MAIN HAS ADEQUATE COVER PER THE GOVERNING UTILITY AUTHORITY SPECIFICATIONS. REPLACE ALL SECTIONS WHERE ADEQUATE COVER IS NOT MET.

REFERENCE DATUM:

1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83.

GENERAL NOTES:

1. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE SURVEY. THEREFORE THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS, RIGHT OF WAYS, COVENANTS, ETC. AS MAY BE DISCLOSED IN A CURRENT COMPREHENSIVE TITLE SEARCH.
2. THIS MAP REFLECTS EXISTING SITE CONDITIONS AS THE RESULT OF A FIELD SURVEY PERFORMED BY VAN CLEEF ENGINEERING ASSOCIATES ON 11/22/21.
3. THIS PLAN IS NOT VALID UNLESS EMBOSSED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL(S).
4. LOCATION OF ABOVE GROUND UTILITIES AS SHOWN.
5. NO CERTIFICATION IS MADE BY VECA AS TO THE ACTUAL UNDERGROUND POSITION OF ANY UTILITIES OR TO THE COMPLETENESS AND/OR ACCURACY OF UTILITY INFORMATION PROVIDED BY OTHERS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION ON THIS PROJECT. THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES.
6. IT IS IMPERATIVE THAT UTILITY COMPANIES BE NOTIFIED PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL 1-800-272-1000 TO ORDER UTILITY MARKOUTS.
7. ALL DISTURBED AREAS TO BE STABILIZED WITH 5" TOPSOIL, SEED, FERTILIZER, LIME, SEED AND MULCH.
8. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL. A MINIMUM OF 48 HOURS IN ADVANCE.

REFERENCE PLANS:

1. PLAN ENTITLED "TOPOGRAPHIC BOUNDARY SURVEY FOR THE PENNINGTON SCHOOL MASTER PLAN PHASE 1 SITE PLAN" PREPARED BY VAN CLEEF ENGINEERING ASSOC. DATED 1/31/22.
2. PLAN ENTITLED "TOPOGRAPHIC SURVEY & WETLANDS DELINEATION MAP FOR THE PENNINGTON SCHOOL" PREPARED BY VAN CLEEF ENGINEERING ASSOC. DATED 6/13/91, LAST REVISED 9/4/91 AS FILE NUMBER 16123.
3. PLAN ENTITLED "PRELIMINARY / FINAL SITE PLAN PREPARED FOR THE PENNINGTON SCHOOL, BLOCK 10 LOT 2" PREPARED BY VAN CLEEF ENGINEERING ASSOC. FILE NO. 234001.
4. PLAN ENTITLED "RECORD PLAN FOR A PORTION OF THE PENNINGTON SCHOOL LOT 10, BLOCK 206" AS PREPARED BY VAN CLEEF ENGINEERING ASSOC. FILE NO. 225143.
5. PLAN ENTITLED "PROPOSED SIDEWALK EASEMENT PLAN PREPARED FOR BLOCK 10, LOT 2" AS PREPARED BY VAN CLEEF ENGINEERING ASSOC. FILE NO. 122111.
6. PLAN ENTITLED "MAP OF SURVEY PREPARED FOR LOTS 9 & 15, BLOCK 6" AS PREPARED BY VAN CLEEF ENGINEERING ASSOC. FILE NO. 122111.
7. PLAN ENTITLED "PLAN OF SURVEY IN BORO OF PENNINGTON, MERCER COUNTY, N.J." AS PREPARED BY TRENTON ENGINEERING CO. PLAN DATED 9/18/67 AND LAST REVISED 9/7/68, FILE NO. 72-20.
8. PLAN ENTITLED "PLAN OF SURVEY OF LANDS OF THE PENNINGTON SCHOOL IN THE BOROUGHS OF PENNINGTON, MERCER COUNTY, N.J." AS PREPARED BY TRENTON ENGINEERING CO. PLAN DATED 11/17/65 AND LAST REVISED 12/23/65.
9. BOUNDARY, TOPOGRAPHIC & WETLANDS DELINEATION SURVEYS FOR THE PENNINGTON SCHOOL, BLOCK 206, LOT 10, BLOCK 205 LOT 1, BLOCK 701 LOT 4, AND BLOCK 502 LOT 4 PENNINGTON BOROUGHS SHEETS 2/29, 3/29, 4/29, 5/29 BY VAN CLEEF ENGINEERING DATED JANUARY 18, 2008, LAST REVISED 9/05/08 MARKED AS FILE NO. 265014.

ADA NOTES

ALL SLOPES INDICATED ARE ACTUAL. CONTRACTOR TO REFER TO LATEST ADA GUIDELINES AND NJ BARRIER FREE SUBCODE (NAC 5:23-7) FOR SLOPE LIMITS. AT THE TIME OF PLAN DESIGN, THE SLOPE LIMITS ARE AS FOLLOWS:

- SIDEWALKS / ACCESSIBLE ROUTES**
- RUNNING SLOPE: 1:20 (5%) MAX.
 - CROSS SLOPE: 1:48 (2.08%) MAX. 1.0% MIN.
 - INTERSECTION SLOPE: 1:48 (2.08%) MAX. IN ALL DIRECTIONS.
 - CHANGE IN LEVELS: 1/2" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE.
 - BEVELED EDGE SLOPE OF 1:2 (50%) MAX.
 - GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL.
- CURB RAMP**
- SLOPE: 1:12 (8.33%) MAX.
 - SIDE FLARE SLOPE: 1:10 (10%) MAX. (WHERE PEDESTRIANS CROSS RAMP)
 - BOTTOM LANDING: 48" MIN. LENGTH WIDTH TO MATCH CURB RAMP: 1:48 MAX. (2.08%) IN ALL DIRECTIONS
 - TOP LANDING: 36" MIN. LENGTH WIDTH TO MATCH CURB RAMP: 1:48 MAX. (2.08%) CROSS SLOPE AND 1:20 (5%) RUNNING SLOPE.

- ACCESSIBILITY PARKING STALLS**
- SPACE AND ACCESSIBLE SLOPE: 1:48 MAX. (2.08%) IN ALL DIRECTIONS

- CROSSWALKS**
- RUNNING SLOPE: 1:20 (5%) MAX.
 - CROSS SLOPE: 1:48 (2.08%) MAX.
 - CHANGE IN LEVELS: 1/2" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE.
 - BEVELED EDGE SLOPE OF 1:2 (50%) MAX.
 - GAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL.

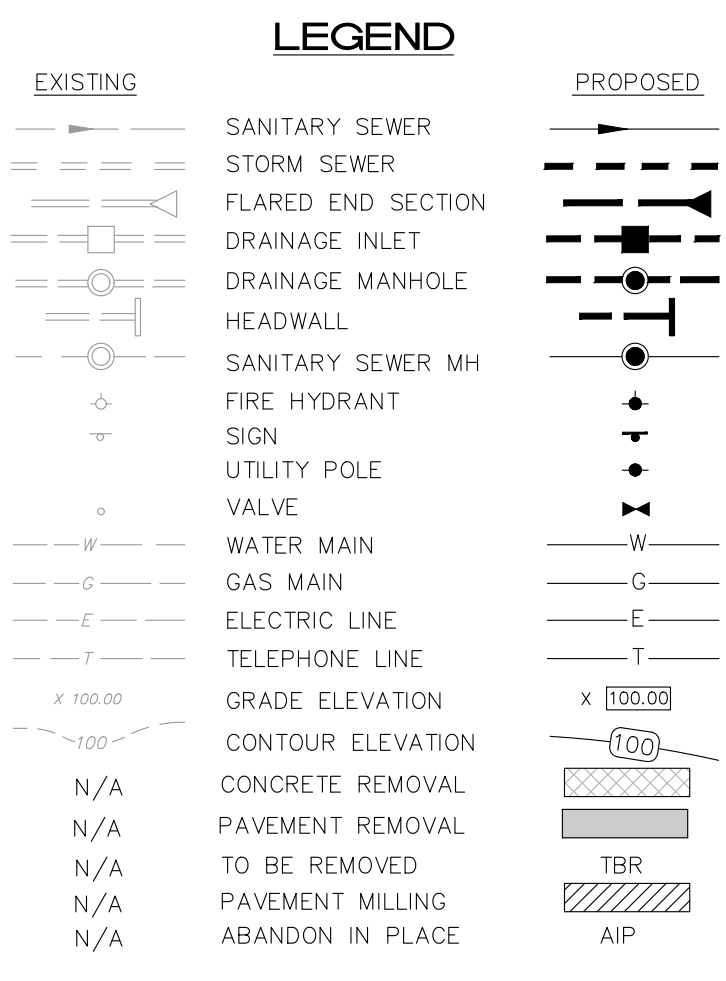
- RAMPS**
- SLOPE: 1:12 (8.33%) MAX.
 - EXISTING RAMPS: SLOPE: 1:10 (10%) MAX FOR RISE OF 1:4 (12.5%) MAX. FOR MAX. RISE OF 3'
 - MAX. RISE: 30"
 - MIN. CLEAR WIDTH: 36"
 - MIN. LANDING CLEAR LENGTH: 60"
 - MAX. CROSS SLOPE: 1:48 (2.08%)

GRADING NOTES

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACING ALL SOFT YELLOWING MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR (MINIMUM DENSITY PER A-1) TEST OR 100% MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE WHERE THE WORK IS BEING PERFORMED. VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATION SET FORTH IN THE SOILS REPORT.
2. CONTRACTOR TO ENSURE VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL ISLAND CUTTERS, CURBS AND 1% ON ALL OTHER IMPROVED SURFACES TO PREVENT POOLING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.
3. SUBBASE MATERIAL FOR SIDEWALKS, CURBS, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
4. REFER TO SITE PLAN FOR ADDITIONAL NOTES.
5. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERSEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
6. MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.
7. CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESSIBLE AREAS. CONTRACTOR TO ENSURE A MINIMUM OF 2% RUNNING SLOPE AND 2% CROSS SLOPE ALONG ALL OTHER PORTIONS OF ACCESSIBLE ROUTE, WITH THE EXCEPTION OF RAMPS AND CURB RAMPS. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
8. THE OWNER SHALL RETAIN A QUALIFIED GEO-TECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTION OF THE BASIN BOTTOM SOILS AND ANY FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA.
9. CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE OWNERS GEO-TECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA.
10. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNERS GEO-TECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY TESTING.
11. THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.

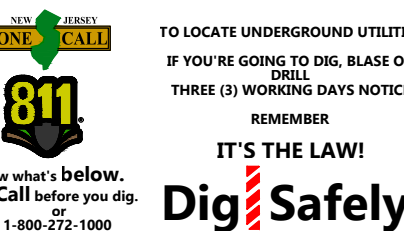
MERCER COUNTY NOTES

1. ALL SIDEWALK AND CURB LOCATED ALONG THE PROPERTY FRONTAGE THAT IS DETERIORATED OR PRESENTS A TRIPPING HAZARD SHALL BE REPLACED UNDER THE DIRECTION OF THE COUNTY ENGINEER OR HIS/HER REPRESENTATIVE(S).
2. ALL CONSTRUCTION OR RECONSTRUCTION WITHIN THE COUNTY R.O.W. SHALL BE PERFORMED TO COUNTY STANDARDS AND MEET PROWALS STANDARDS. ALL DRIVEWAYS APRONS, CURBS AND SIDEWALKS SHALL BE DESIGNED TO COUNTY STANDARDS AND MEET THE SATISFACTION OF THE COUNTY ENGINEER.



PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSION OR COLORED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY REPRODUCTION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

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DATE:	MAY 20, 2022
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CHECKED BY:	PDQ
JOB NO.:	20-02-PEB
DATE:	5/20/22

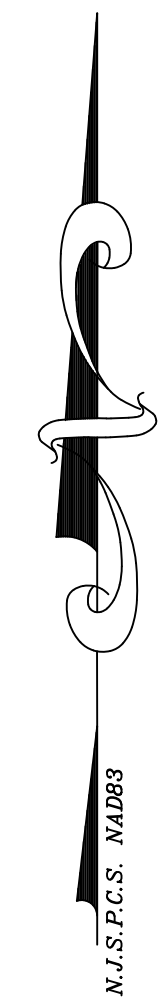
JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24G6052258005

Van Cleaf
ENGINEERING WITH FOCUS

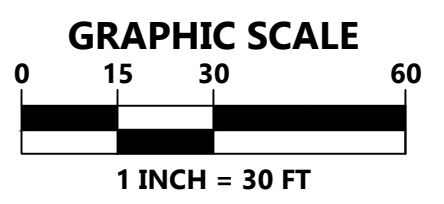
OVERALL KEY PLAN
FOR
THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGHS, MERCER COUNTY, NEW JERSEY

02 / 17

MATCH LINE A



EXISTING	PROPOSED



- CONSTRUCTION NOTES:**
- ALL CONSTRUCTION DEBRIS TO BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS.
 - CONTRACTOR TO PROVIDE SECURE STAGING AREA ON-SITE. LOCATION TO BE AGREED UPON BY SCHOOL.
 - CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS FOR SCHOOL STAFF AND STUDENTS DURING CONSTRUCTION.
 - CONTRACTOR TO PROVIDE EMERGENCY ACCESS TO SCHOOL AT ALL TIMES.
 - ALL SEDIMENT DROPPED, SPILLED OR TRACKED ON PAVED SURFACES TO BE REMOVED IMMEDIATELY.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL SOIL IMPORT OR EXPORT PERMITS REQUIRED, INCLUDING FEES.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL ON-SITE SAFETY AND SECURITY. ALL SAFETY PRECAUTIONS MUST BE UNDERTAKEN AND MAINTAINED AS REQUIRED BY LOCAL, STATE AND FEDERAL CODES. NO SEPARATE PAYMENT SHALL BE MADE FOR ON-SITE SAFETY & SECURITY. THE COSTS OF ON-SITE SAFETY AND SECURITY SHALL BE INCLUDED IN COST OF THE WORK.
 - ALL CONCRETE SIDEWALK TO BE ADA COMPLIANT WITH A MAX. GROSS SLOPE OF 2.0% AND A MAX. RUNNING SLOPE OF 5.0%. SIDEWALK WITH A RUNNING SLOPE GREATER THAN 5% REQUIRES AN ADA COMPLIANT HANDRAIL. NO SIDEWALK SHALL HAVE A RUNNING SLOPE GREATER THAN 6.33%.
 - ALL EQUIPMENT, MATERIALS, ETC. SHALL BE CONFINED TO THE DESIGNATED WORK AREA. NO USE OF ADDITIONAL AREA, EVEN FOR EQUIPMENT OR MATERIAL STORAGE, IS PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE OWNER. DESIGNATED WORK AREA SHALL BE DETERMINED AT PRE-CONSTRUCTION MEETING.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5 INCHES OF TOPSOIL, FERTILIZER, LIME, MULCH AND TACK WITHIN LIMIT OF DISTURBANCE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING INFRASTRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND AND ALL OF THE EXISTING INFRASTRUCTURE THE CONTRACTOR DAMAGED DURING CONSTRUCTION.
 - ALL BACKFILL, FILL AREAS AND SUBGRADES SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNLESS OTHERWISE NOTED ON THE PLANS.

- REFERENCE DATUM:**
- VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83.
- GENERAL NOTES:**
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE SURVEY. THEREFORE THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS, RIGHT OF WAYS, COVENANTS, ETC. AS MAY BE DISCLOSED IN A CURRENT COMPREHENSIVE TITLE SEARCH.
 - THIS MAP REFLECTS EXISTING SITE CONDITIONS AS THE RESULT OF A FIELD SURVEY PERFORMED BY VAN CLEEF ENGINEERING ASSOCIATES ON 11/22/21.
 - THIS PLAN IS NOT VALID UNLESS EMBOSSED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL(S).
 - LOCATION OF ABOVE GROUND UTILITIES AS SHOWN.
 - NO CERTIFICATION IS MADE BY VCEA AS TO THE ACTUAL UNDERGROUND POSITION OF ANY UTILITIES OR TO THE COMPLETENESS AND/OR ACCURACY OF UTILITY INFORMATION PROVIDED BY OTHERS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION ON THIS PROJECT. THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF ANY CONFLICTS.
 - IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL 1-800-272-1000 TO ORDER UTILITY MARKOUTS.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5" TOPSOIL, SEED, FERTILIZER, LIME, SEED AND MULCH.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL A MINIMUM OF 48 HOURS IN ADVANCE.

DATE:	MAY 20, 2022
SCALE:	1"=30'
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB
AUTH. DATE:	5/20/22
DATE:	5/20/22

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE05225005

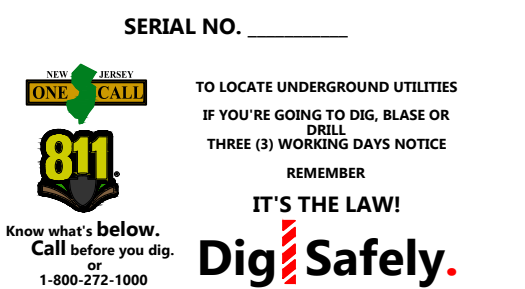
Van Cleaf
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
4 MAIN STREET, SUITE 100, MARLTON, NJ 08053
PHONE: (856) 682-1100
FAX: (856) 682-1100
CERT. OF AUTHORIZATION NO. 246A21121290

EXISTING CONDITIONS & DEMOLITION PLAN
FOR
THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

03A
17

PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSED OR COLORED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, SUPPLEMENT OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE USER'S DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.



WEST DELAWARE AVE.
(48' R.O.W.)

REFERENCE DATUM:
1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1
AND NEW JERSEY STATE PLANE COORDINATE SYSTEM,
MADES

- GENERAL NOTES:**
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE SURVEY. THEREFORE, THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS, RIGHTS OF WAY, COVENANTS, ETC. AS MAY BE DISCLOSED IN A CURRENT COMPREHENSIVE TITLE SEARCH.
 - THIS MAP REFLECTS EXISTING SITE CONDITIONS AS THE RESULT OF A FIELD SURVEY PERFORMED BY VAN CLEEF ENGINEERING ASSOCIATES, INC. ON 11/22/21.
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 - LOCATION OF ABOVE GROUND UTILITIES AS SHOWN.
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 - IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL 1-800-272-1000 TO ORDER UTILITY MARKINGS.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5" TOPSOIL, SEED, FERTILIZER, LIME, SEED AND MULCH.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL A MINIMUM OF 48 HOURS IN ADVANCE.

- CONSTRUCTION NOTES:**
- ALL CONSTRUCTION DEBRIS TO BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS.
 - CONTRACTOR TO PROVIDE SECURE STAGING AREA ON-SITE. LOCATION TO BE AGREED UPON BY SCHOOL.
 - CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS FOR SCHOOL STAFF AND STUDENTS DURING CONSTRUCTION.
 - CONTRACTOR TO PROVIDE EMERGENCY ACCESS TO UTILITY MARKINGS.
 - ALL SEDIMENT DROPPED, SPILLED OR TRACKED ON PAVED SURFACES TO BE REMOVED IMMEDIATELY.
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 - ALL CONCRETE SIDEWALK TO BE ADA COMPLIANT WITH A MAX CROSS SLOPE OF 2.0% AND A MAX RUNNING SLOPE OF 5.0%. SIDEWALK WITH A RUNNING SLOPE GREATER THAN 5% REQUIRES AN ADA COMPLIANT HANDRAIL. NO SIDEWALK SHALL HAVE A RUNNING SLOPE GREATER THAN 3.33%.
 - ALL EQUIPMENT, MATERIALS, ETC. SHALL BE CONFINED TO THE DESIGNATED WORK AREA. NO USE OF ADDITIONAL AREA FOR EQUIPMENT OR MATERIAL STORAGE IS PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE OWNER. DESIGNATED WORK AREA SHALL BE DETERMINED AT PRE-CONSTRUCTION MEETING.
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 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING INFRASTRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND ALL OF THE EXISTING INFRASTRUCTURE THE CONTRACTOR DAMAGED DURING CONSTRUCTION.
 - ALL BACKFILL, FILL AREAS AND SUBGRADES SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNLESS OTHERWISE NOTED ON THE PLANS.

LEGEND

EXISTING	PROPOSED



$\Delta = 04^{\circ}52'19"$
 $R = 5,680.00'$
 $L = 241.62'$
 $Ch = 482.58'$
 $Ch = 482.58'$
 $N 01^{\circ}00'31" E$

BLOCK 502
LOT 4
 1,433,311 S.F.
 32,904 AC.

MATCH LINE B

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SERIAL NO.

 TO LOCATE UNDERGROUND UTILITIES BEFORE YOU DIG, CALL 811 OR VISIT 811NJ.COM
 IT'S THE LAW!
 Dig Safely.
 1-800-272-1000

DATE:	MAY 20, 2022
SCALE:	1" = 30'
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
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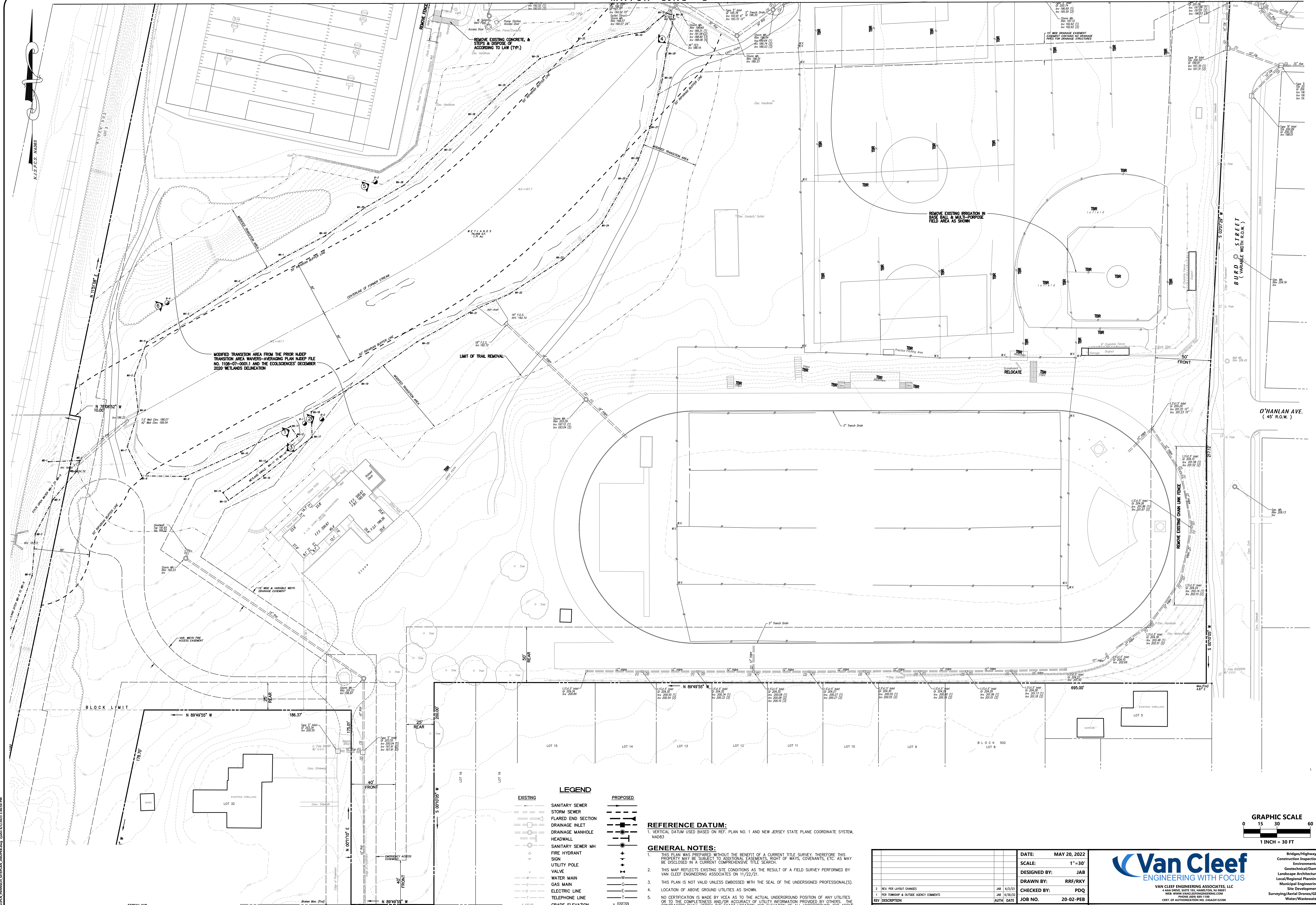
JAMES A. BASH
 NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24G052258005

Van Cleef
 ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
 1400 DRIVE, SUITE 200, HANDELIN, NJ 08041
 WWW.VANCLEEFENGINEERING.COM
 PHONE: (609) 689-1100
 CERT. OF AUTHORIZATION NO. 25628213200

EXISTING CONDITIONS & DEMOLITION PLAN
 FOR
**THE PENNINGTON SCHOOL MASTER PLAN
 PRELIMINARY & FINAL SITE PLAN**
 BLOCK 701, LOT 4, BLOCK 502, LOT 4,
 BLOCK 206, LOT 10 & BLOCK 205, LOT 1
 PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

03B
17



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SERIAL NO. TO LOCATE UNDERGROUND UTILITIES IF YOU ARE GOING TO DIG, READ OR TALK TO US FIRST. 811 Dig Safely. IT'S THE LAW! Call before you dig. 1-800-375-1000

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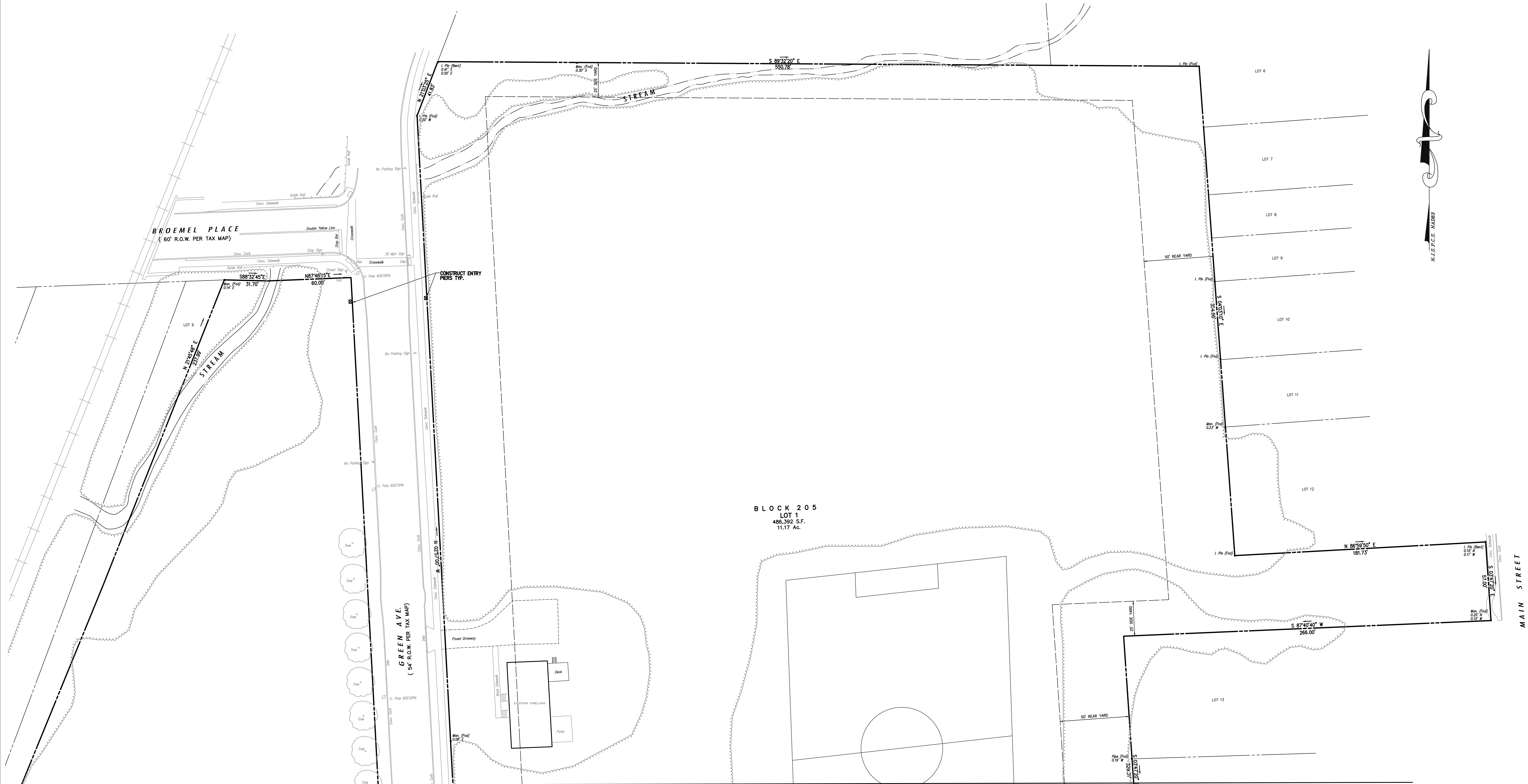
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LEGEND table with columns for EXISTING and PROPOSED symbols and their corresponding descriptions: SANITARY SEWER, STORM SEWER, FLARED END SECTION, DRAINAGE INLET, DRAINAGE MANHOLE, HEADWALL, SANITARY SEWER MH, FIRE HYDRANT, SIGN, UTILITY POLE, VALVE, WATER MAIN, GAS MAIN, ELECTRIC LINE, TELEPHONE LINE, GRADE ELEVATION, CONTOUR ELEVATION, CONCRETE/PAVER REMOVAL, PAVEMENT REMOVAL, TO BE REMOVED, PAVEMENT MILLING, ABANDON IN PLACE.

REFERENCE DATUM: 1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83. GENERAL NOTES: 1. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE SURVEY... 2. THIS MAP REFLECTS EXISTING SITE CONDITIONS... 3. THIS PLAN IS NOT VALID UNLESS EMBOSSED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL(S)... 4. LOCATION OF ABOVE GROUND UTILITIES AS SHOWN... 5. NO CERTIFICATION IS MADE BY VCEA AS TO THE ACTUAL UNDERGROUND POSITION OF ANY UTILITIES... 6. IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION... 7. ALL DISTURBED AREAS TO BE STABILIZED WITH 5" TOPSOIL, SEED, FERTILIZER, LIME, SEED AND MULCH... 8. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL A MINIMUM OF 48 HOURS IN ADVANCE.

Project information box including DATE (MAY 20, 2022), SCALE (1"=30'), DESIGNED BY (JAB), DRAWN BY (RRF/RKY), CHECKED BY (PDQ), JOB NO. (20-02-PEB), and a signature block for JAMES A. BASH, NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246052258005.

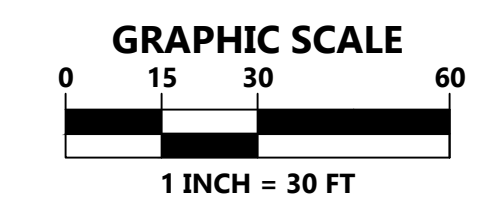
Van Cleef Engineering logo and project title: EXISTING CONDITIONS & DEMOLITION PLAN FOR THE PENNINGTON SCHOOL MASTER PLAN PRELIMINARY & FINAL SITE PLAN. Includes block and lot information and a graphic scale (1 inch = 30 feet).



MATCH LINE A

BLOCK 205
LOT 1
486,392 S.F.
11.17 AC.

EXISTING	LEGEND	PROPOSED
	SANITARY SEWER	
	STORM SEWER	
	FLARED END SECTION	
	DRAINAGE INLET	
	DRAINAGE MANHOLE	
	HEADWALL	
	SANITARY SEWER MH	
	FIRE HYDRANT	
	SIGN	
	UTILITY POLE	
	VALVE	
	WATER MAIN	
	GAS MAIN	
	ELECTRIC LINE	
	TELEPHONE LINE	
	GRADE ELEVATION	
	CONTOUR ELEVATION	
	POROUS PAVEMENT	
	PAVEMENT	
	POROUS PAVERS	
	TALL PIER	
	SHORT PIER	



CONSTRUCTION NOTES:

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REFERENCE DATUM:

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DESIGNED BY:	JAB
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CHECKED BY:	PDQ
JOB NO.:	20-02-PEB
DATE:	5/20/22

James A. Bash
JAMES A. BASH
 NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005

Van Cleaf
 ENGINEERING WITH FOCUS

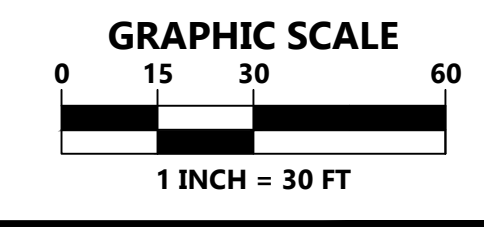
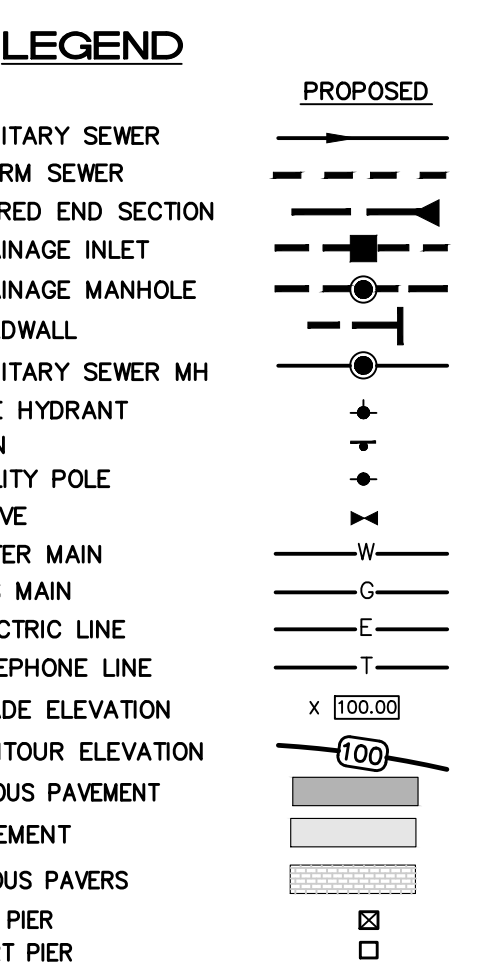
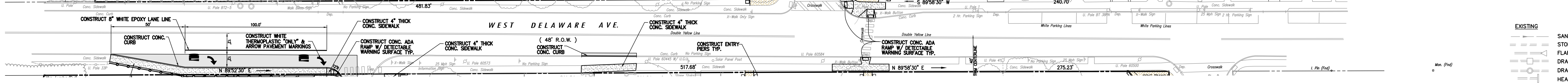
VAN CLEEF ENGINEERING ASSOCIATES, LLC
 4444 BIRCH DRIVE, SUITE 100, MANALAPAN, NJ 08051
 WWW.VANCLEEFENGINEERING.COM
 PHONE: 609.491.1100
 FAX: 609.491.1100
 CERT. OF AUTHORIZATION NO. 246A219320

SITE PLAN FOR
THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN
 BLOCK 701, LOT 4, BLOCK 502, LOT 4,
 BLOCK 206, LOT 10 & BLOCK 205, LOT 1
 PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

04A
17

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JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005

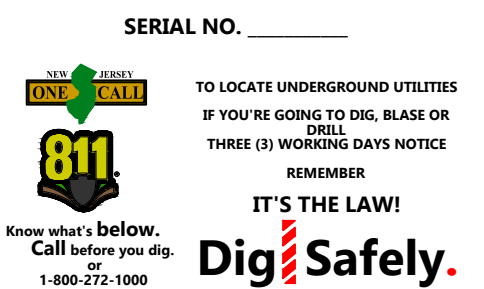
Van Cleaf
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4 MAIN STREET, SUITE 100, MARLTON, NJ 08053
WWW.VANCLEEFENGINEERING.COM
PHONE: (856) 682-1100
CELL: (856) 241-3230
CERT. OF AUTHORIZATION: 160-34621812320

SITE PLAN
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

04B
17

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TO LOCATE UNDERGROUND UTILITIES IF YOU'RE GOING TO DIG, BLAZE OR TIE IN: (609)222-8473
SERIAL NO. _____
IT'S THE LAW!
Dig Safely

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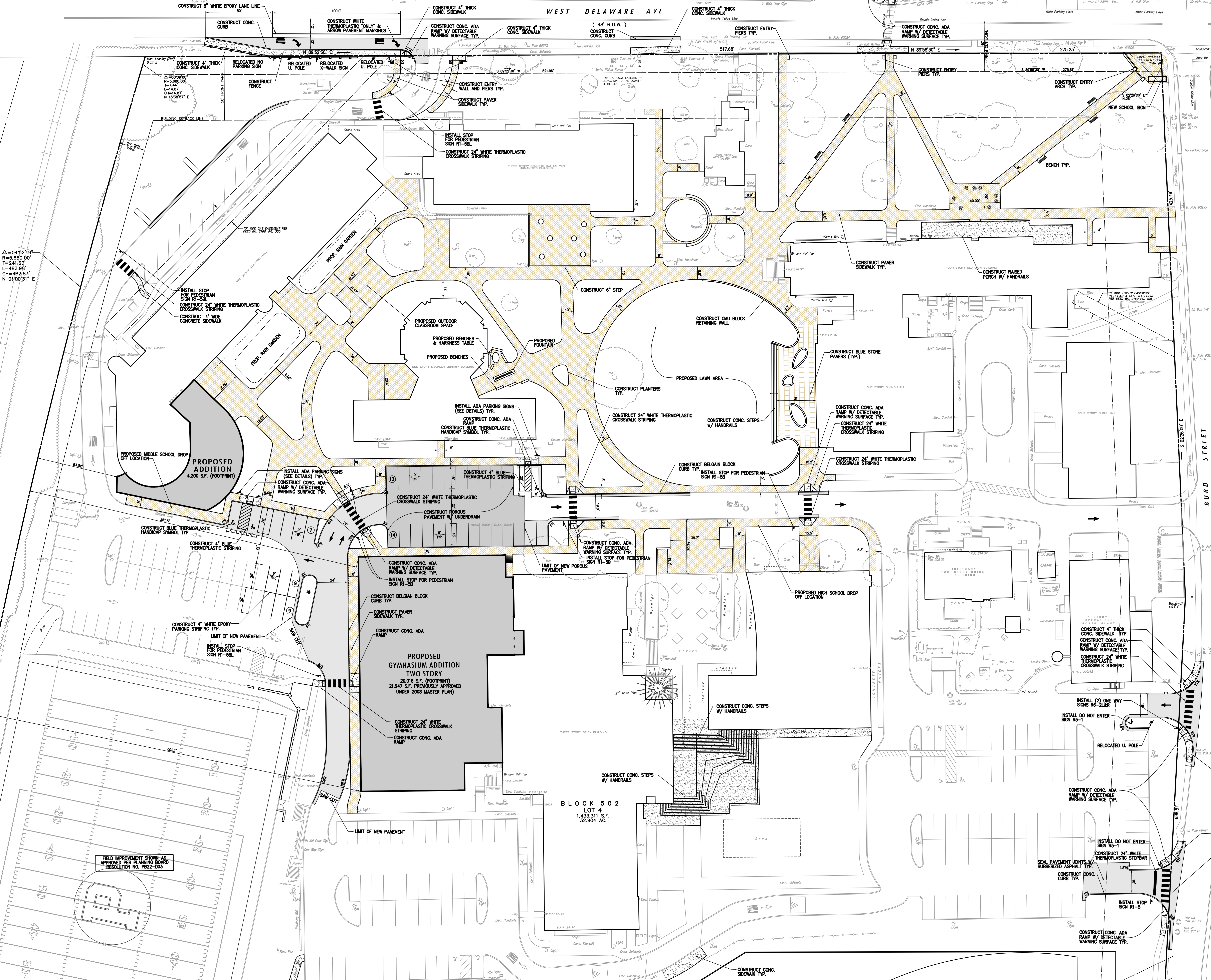
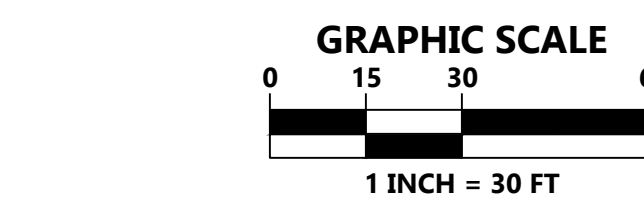
REFERENCE DATUM:
1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83

- GENERAL NOTES:**
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 - LOCATION OF ABOVE GROUND UTILITIES AS SHOWN.
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 - IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL 1-800-272-1000 TO ORDER UTILITY MARKOUTS.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5" TOPSOIL, SEED, FERTILIZER, LIME, SEED AND MULCH.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL A MINIMUM OF 48 HOURS IN ADVANCE.

- CONSTRUCTION NOTES:**
- ALL CONSTRUCTION DEBRIS TO BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS.
 - CONTRACTOR TO PROVIDE SECURE STAGING AREA ON-SITE. LOCATION TO BE AGREED UPON BY SCHOOL.
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 - ALL CONCRETE SIDEWALK TO BE ADA COMPLIANT WITH A MAX CROSS SLOPE OF 2.0% AND A MAX RUNNING SLOPE OF 5.0%. SIDEWALK WITH A RUNNING SLOPE GREATER THAN 5% REQUIRES AN ADA COMPLIANT HANDRAIL. NO SIDEWALK SHALL HAVE A RUNNING SLOPE GREATER THAN 8.33%.
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 - ALL BACKFILL, FILL AREAS AND SUBGRADE SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNLESS OTHERWISE NOTED ON THE PLANS.

LEGEND

EXISTING	PROPOSED
Sanitary Sewer	Sanitary Sewer MH
Storm Sewer	Fire Hydrant
Flared End Section	Utility Pole
Drainage Inlet	Valve
Drainage Manhole	Water Main
Headwall	Gas Main
Sanitary Sewer MH	Electric Line
Fire Hydrant	Telephone Line
Utility Pole	Grade Elevation
Valve	Contour Elevation
Water Main	Porous Pavement
Gas Main	Pavement
Electric Line	Porous Pavers
Telephone Line	Tall Pier
Grade Elevation	Short Pier
Contour Elevation	
Porous Pavement	
Pavement	
Porous Pavers	
Tall Pier	
Short Pier	



$\Delta = 04^{\circ}52'19''$
 $R = 5,680.00'$
 $T = 241.62'$
 $L = 482.30'$
 $CH = 482.83'$
 $N 01^{\circ}00'31'' E$

MATCH LINE B

PLAN NOTATION
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SERIAL NO.
811
IT'S THE LAW!
DigIt Safely.
1-800-375-1000

DATE: MAY 20, 2022
SCALE: 1" = 30'
DESIGNED BY: JAB
DRAWN BY: RRF/RKY
CHECKED BY: PDQ
JOB NO.: 20-02-PEB

2 REV. PER LAYOUT CHANGES
 1 PER TOWNSHIP & OUTSIDE AGENCY COMMENTS

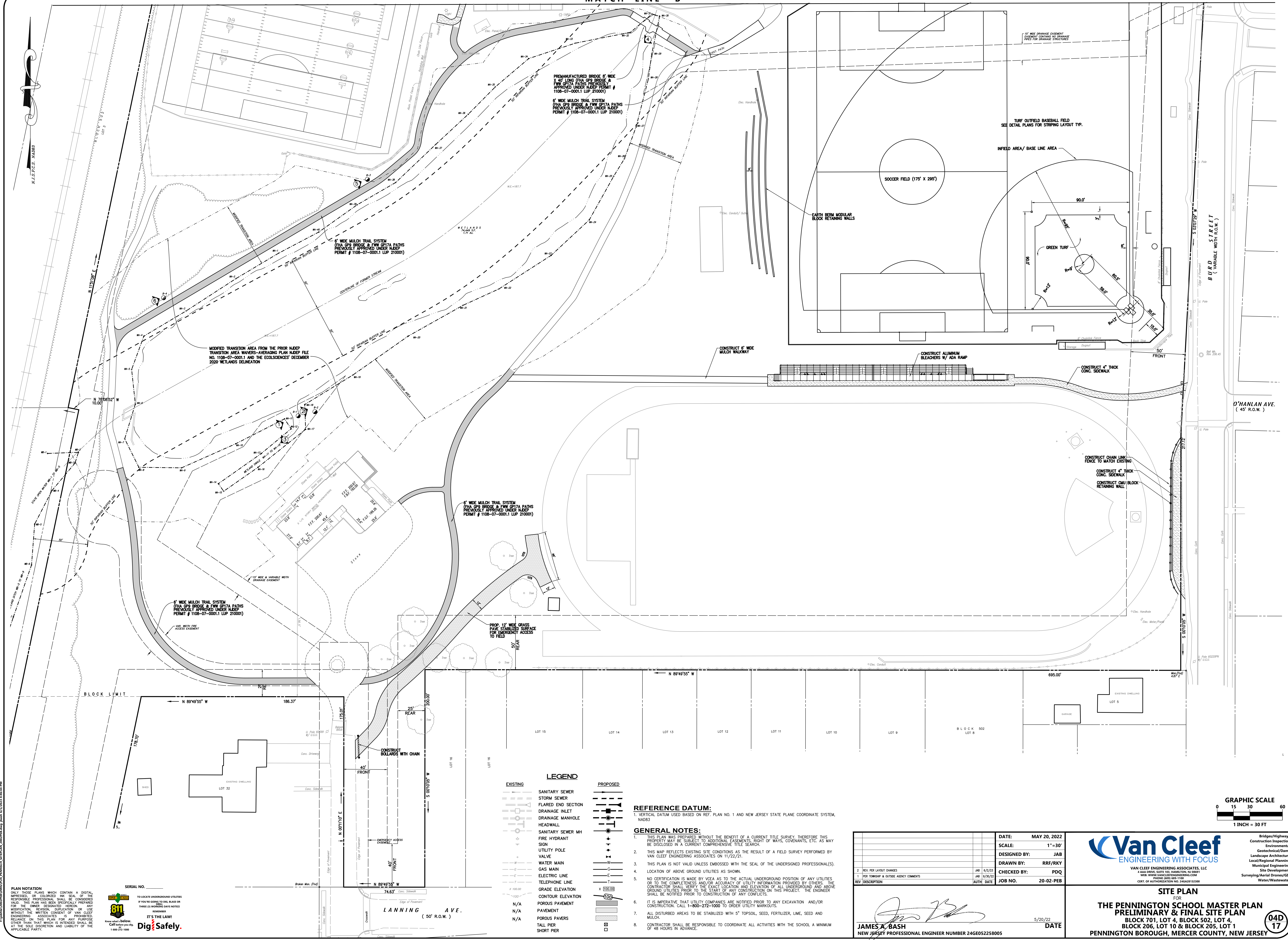
JAMES A. BASH
 NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246E052258005

5/20/22 DATE

Van Cleef
 ENGINEERING WITH FOCUS

SITE PLAN FOR THE PENNINGTON SCHOOL MASTER PLAN PRELIMINARY & FINAL SITE PLAN
 BLOCK 701, LOT 4, BLOCK 502, LOT 4,
 BLOCK 206, LOT 10 & BLOCK 205, LOT 1
 PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

04C 17



PLAN NOTATION ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSION OR COLORED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON, OR ANY MODIFICATION, REVISION, SUPPLEMENT OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE USER'S DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

811 Dig Safely. IT'S THE LAW! Call before you dig. 1-800-375-1000

TO LOCATE UNDERGROUND UTILITIES IF YOU'RE GOING TO DIG, PLEASE OR THREE (3) WORKING DAYS NOTICE

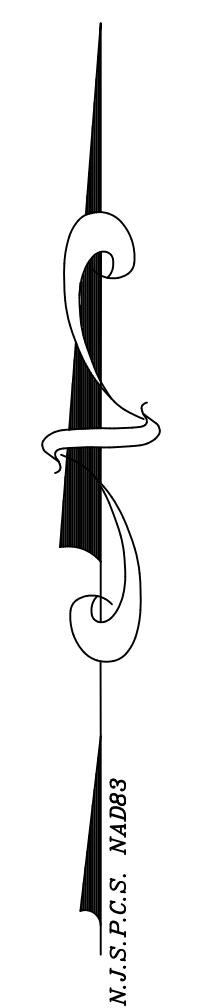
LEGEND: EXISTING (Sanitary Sewer, Storm Sewer, etc.) and PROPOSED (Sanitary Sewer MH, Fire Hydrant, etc.) symbols and descriptions.

REFERENCE DATUM: 1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83

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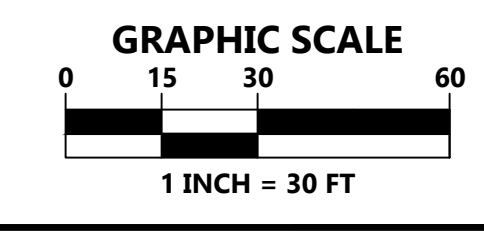
DATE: MAY 20, 2022; SCALE: 1"=30'; DESIGNED BY: JAB; DRAWN BY: RRF/RKY; CHECKED BY: PDQ; JOB NO.: 20-02-PEB; DATE: 5/20/22; JAMES A. BASH, NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246E052258005

Van Cleef ENGINEERING WITH FOCUS. SITE PLAN FOR THE PENNINGTON SCHOOL MASTER PLAN PRELIMINARY & FINAL SITE PLAN. BLOCK 701, LOT 4, BLOCK 502, LOT 4, BLOCK 206, LOT 10 & BLOCK 205, LOT 1. PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY. Includes graphic scale and north arrow.



MATCH LINE A

EXISTING	PROPOSED



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DATE:	MAY 20, 2022
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DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB
DATE:	5/20/22

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005

Van Cleaf
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
4444 DREW DRIVE, SUITE 100, HANMONT, NJ 08041
WWW.VANCLEEFENGINEERING.COM
PHONE: 609.491.1100
FAX: 609.491.1101
CERT. OF AUTHORIZATION NO. 246A03193200

BRIDGES/HIGHWAYS
Construction Inspection
ENVIRONMENTAL
Environmental
Geotechnical/Dams
LANDSCAPE ARCHITECTURE
Local/Regional Planning
Municipal Engineering
SITE DEVELOPMENT
Surveying/Aerial Drones/GIS
Water/Wastewater

GRADING, DRAINAGE & UTILITY PLAN
FOR
THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

05A
17

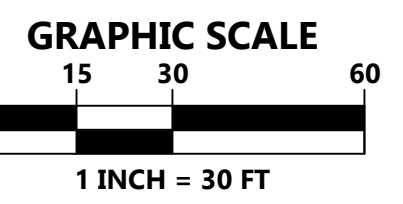
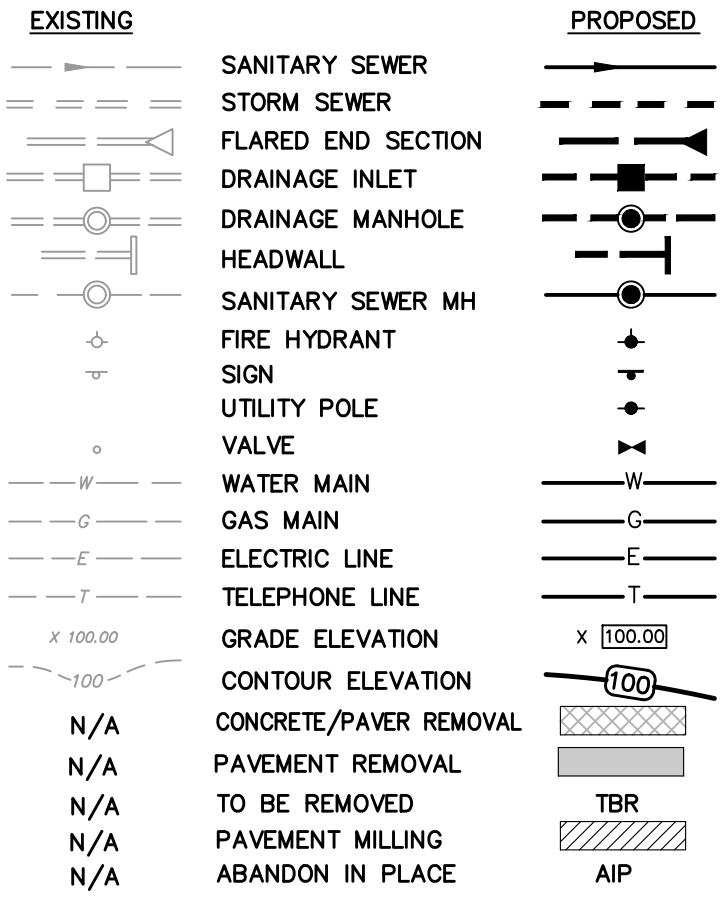
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MATCH LINE A



LEGEND



CONSTRUCTION NOTES:

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REFERENCE DATUM:

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Revision table and signature block. Includes columns for REV, DESCRIPTION, DATE, and AUTH. Includes a signature of James A. Bash and a date stamp of 5/20/22.

Project information and contact details. Includes the Van Cleaf Engineering with Focus logo, project name 'THE PENNINGTON SCHOOL MASTER PLAN PRELIMINARY & FINAL SITE PLAN', and address 'BLOCK 206, LOT 10 & BLOCK 205, LOT 1 PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY'. Also includes a graphic scale and a small '05B 17' stamp.

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Dig Safely logo and contact information. Includes the 811 logo and text 'IT'S THE LAW! Dig Safely. Call before you dig. 1-800-272-1000'.

WEST DELAWARE AVE.
(48' R.O.W.)

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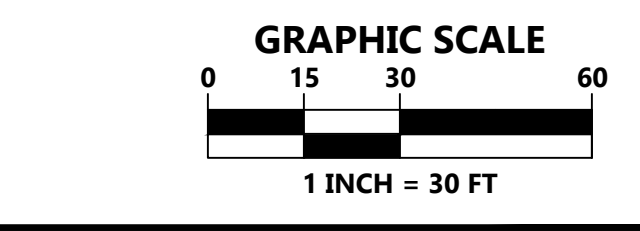
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BMP SUMMARY:

POROUS PAVEMENT DRIVE NORTH OF OLD MAIN BUILDING:	BMP AREA = 7,369 SF
MAX. CONTRIBUTORY AREA = 22,107 SF	TOTAL DRAINAGE AREA = 61,363 SF
CONTRIBUTORY AREA = 14,674 SF	
POROUS PAVEMENT PARKING NORTH OF GYMNASIUM:	BMP AREA = 8,565 SF
MAX. CONTRIBUTORY AREA = 19,695 SF	TOTAL DRAINAGE AREA = 57,748 SF
CONTRIBUTORY AREA = 18,895 SF	

LEGEND

EXISTING	PROPOSED
SANITARY SEWER	SANITARY SEWER MH
STORM SEWER	FIRE HYDRANT
FLARED END SECTION	SIGN
DRAINAGE INLET	UTILITY POLE
DRAINAGE MANHOLE	VALVE
HEADWALL	WATER MAIN
SANITARY SEWER MH	GAS MAIN
FIRE HYDRANT	ELECTRIC LINE
SIGN	TELEPHONE LINE
UTILITY POLE	GRADE ELEVATION
VALVE	CONTOUR ELEVATION
WATER MAIN	CONCRETE PAVEMENT REMOVAL
GAS MAIN	N/A
ELECTRIC LINE	N/A
TELEPHONE LINE	N/A
GRADE ELEVATION	N/A
CONTOUR ELEVATION	N/A
CONCRETE PAVEMENT REMOVAL	
N/A	TO BE REMOVED
N/A	PAVEMENT MILLING
N/A	ABANDON IN PLACE
N/A	



MATCH LINE B

DATE:	MAY 20, 2022
SCALE:	1" = 30'
DESIGNED BY:	JAB
DRAWN BY:	RRF/RJK
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246052258005

5/20/22 DATE

Van Cleef
ENGINEERING WITH FOCUS

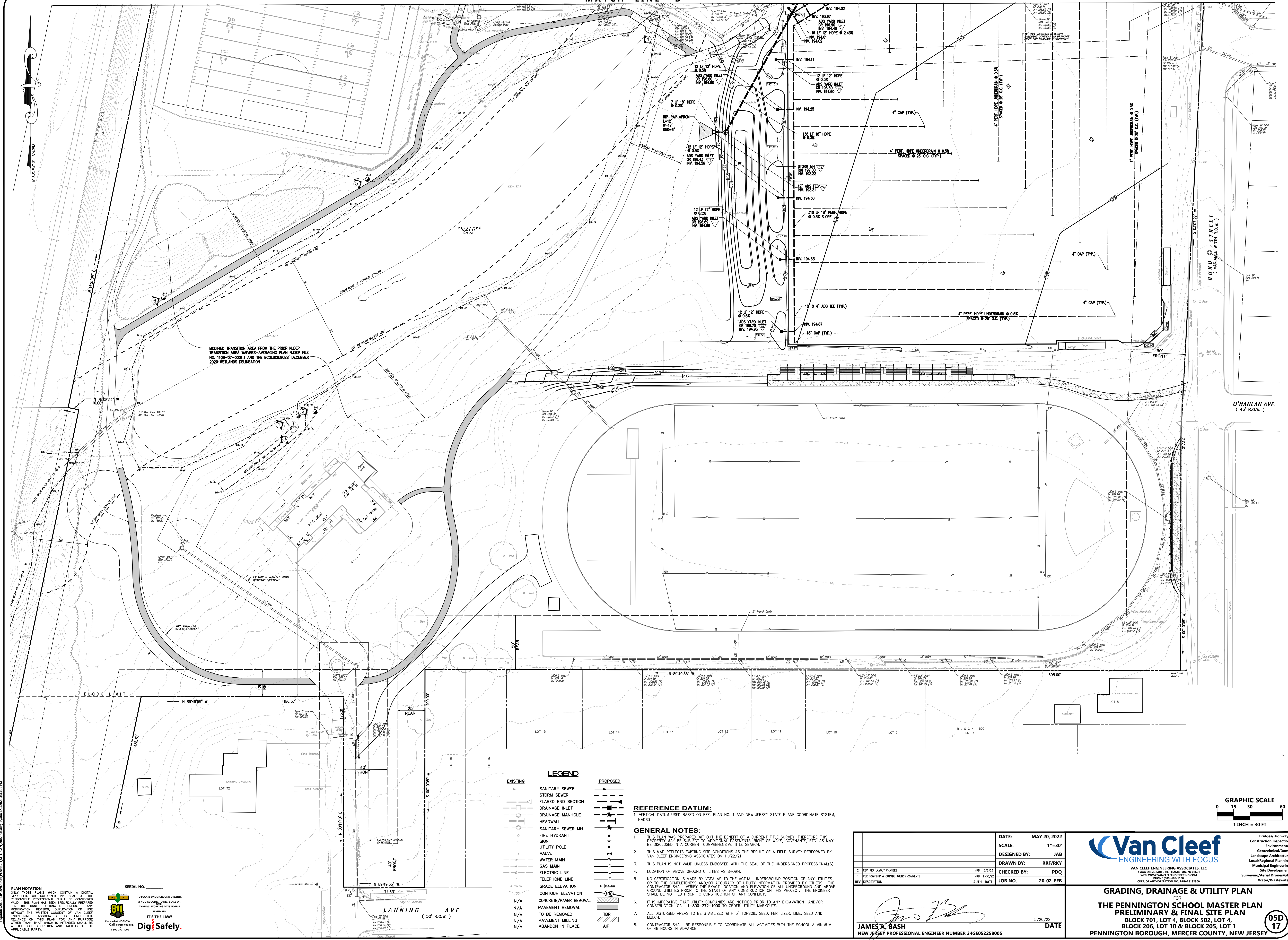
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PRELIMINARY & FINAL SITE PLAN**
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

Van Cleef Engineering Associates, LLC
1400 DOWNS DRIVE, SUITE 200, HANDELIN, NJ 08041
WWW.VANCLEEFENGINEERING.COM
PHONE: 609.689.1100
FAX: 609.689.1100

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Drains
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

PLAN NOTATION
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SERIAL NO.
TO LOCATE UNDERGROUND UTILITIES
IF YOU'RE GOING TO DIG, BLADE OR
THREE (3) WORKING DAYS NOTICE
NECESSARY
IT'S THE LAW!
Dig Safely
1-800-275-1000



MODIFIED TRANSITION AREA FROM THE PRIOR NJDEP TRANSITION AREA WATERS-WEAVING PLAN NJDEP FILE NO. 1108-07-0001.1 AND THE ECOSCIENCES DECEMBER 2020 WETLANDS DELINEATION

O'HANLAN AVE. (45' R.O.W.)

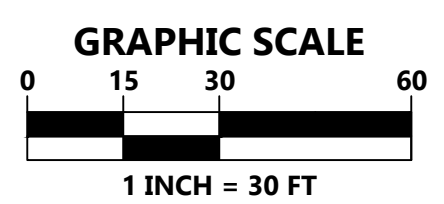
BLOCK LIMIT

LEGEND

EXISTING	PROPOSED

REFERENCE DATUM:
1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83

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JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005

Van Cleaf
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
1000 W. STATE ST. SUITE 100, HANOVER, NJ 07930
PHONE: 609.695.1100
CERT. OF AUTHORIZATION NO. 246243123200

GRADING, DRAINAGE & UTILITY PLAN
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

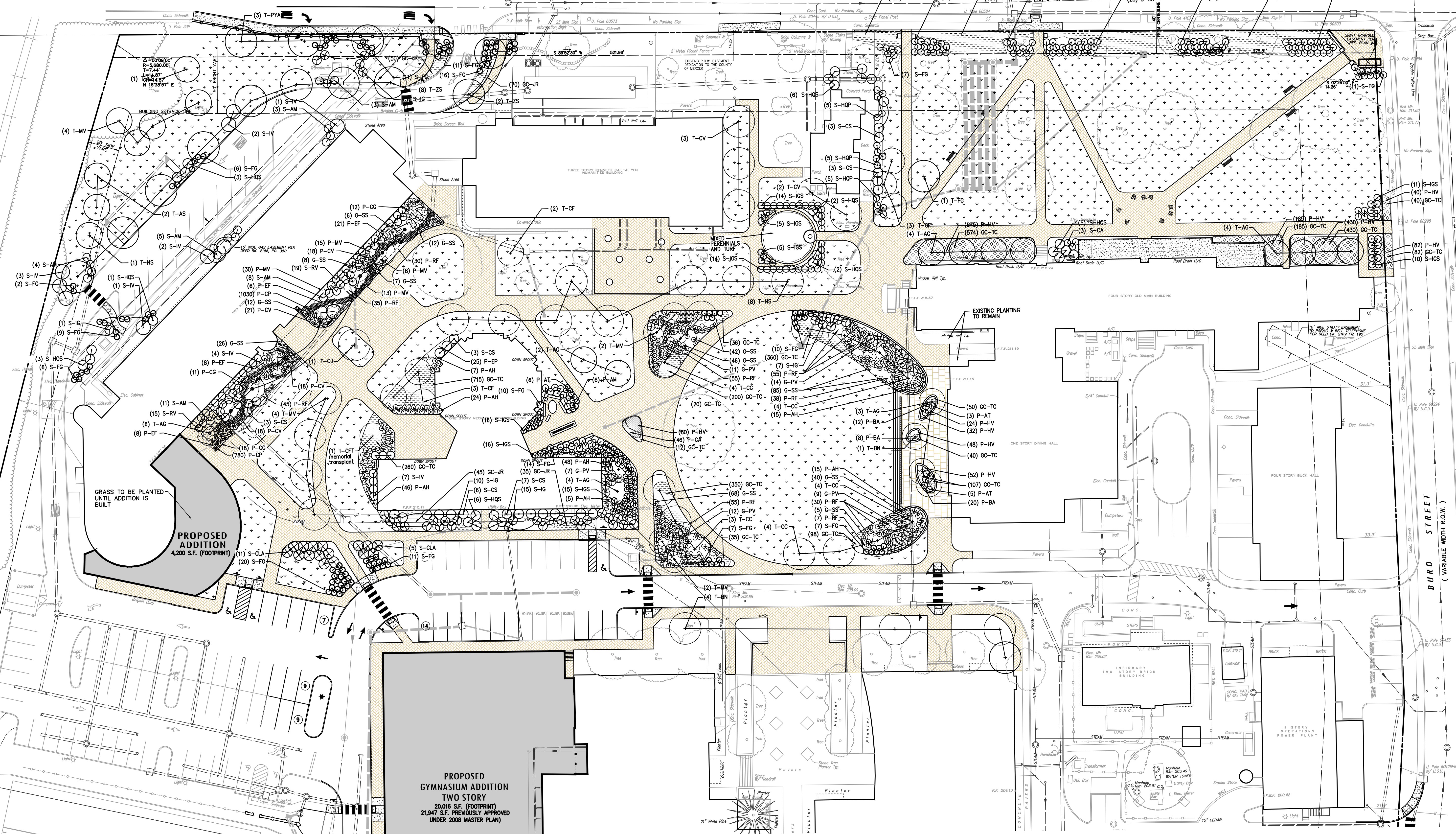
05D
17

WEST DELAWARE AVE.

(48' R.O.W.)

GENERAL LANDSCAPING NOTES:

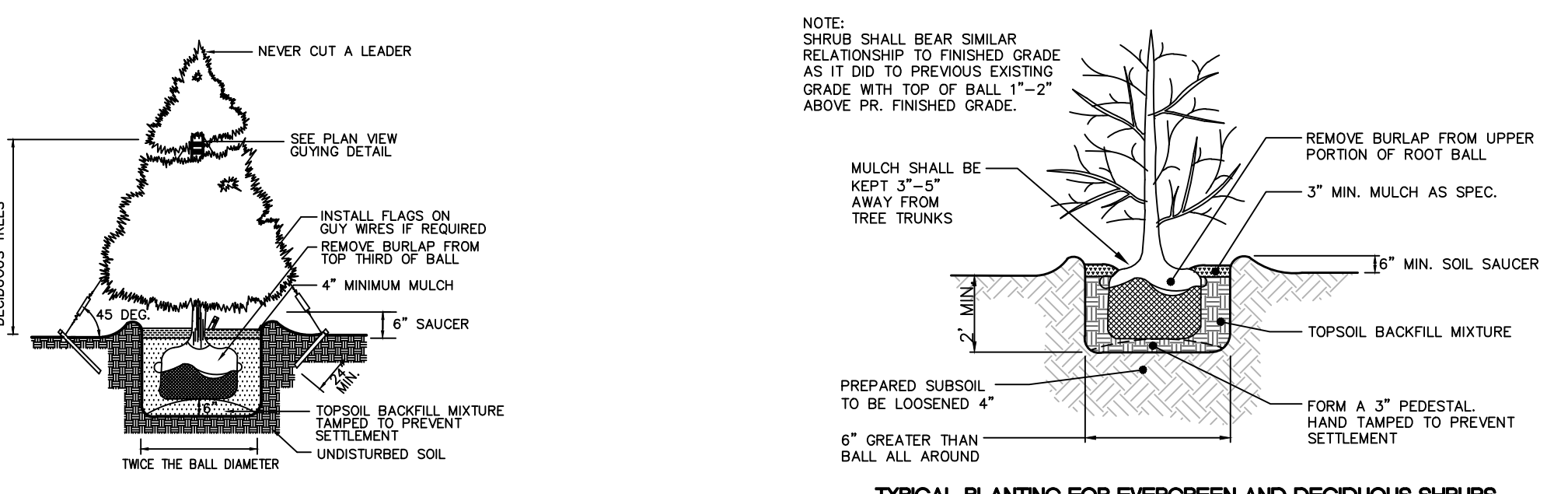
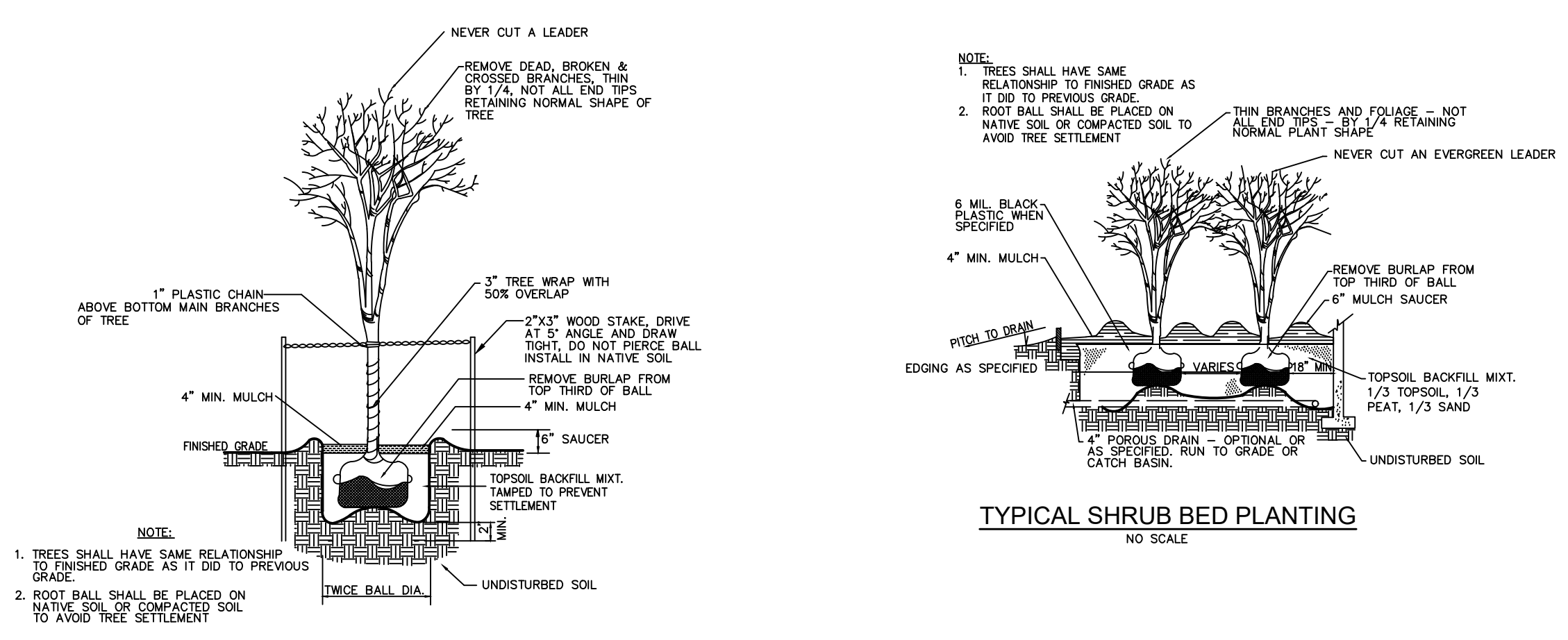
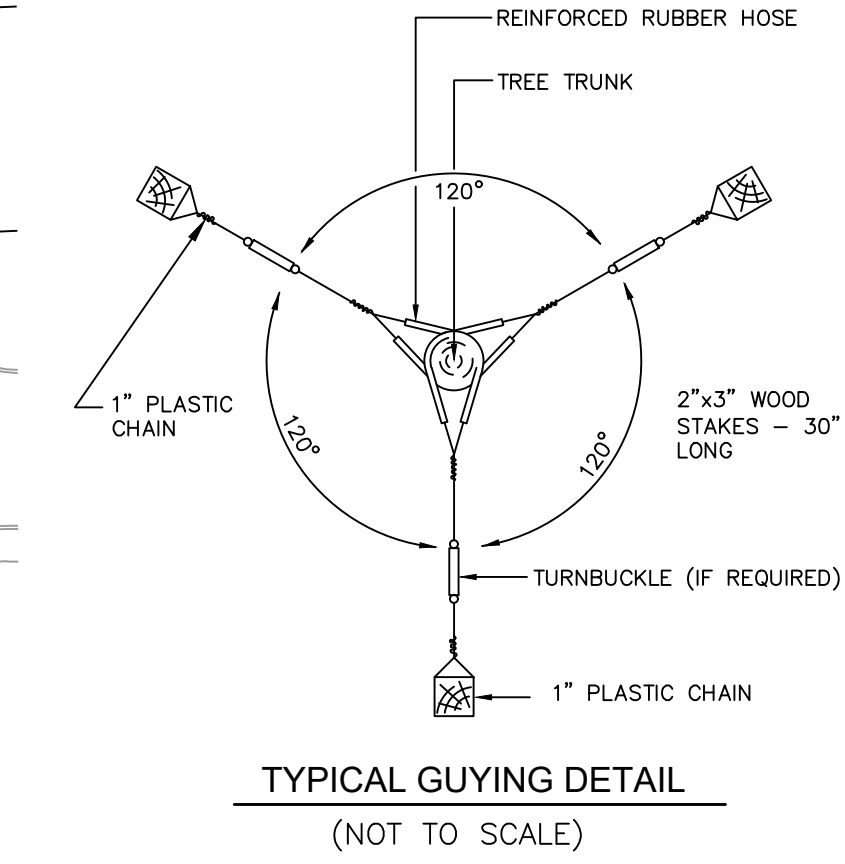
1. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY, AND SHALL HAVE NORMAL, WELL-DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. ALL PLANTS SHALL BE NURSERY-GROWN UNLESS OTHERWISE SPECIFIED. THEY SHALL HAVE BEEN GROWING UNDER THE SAME CLIMATE CONDITIONS AS THE MUNICIPALITY FOR AT LEAST TWO (2) YEARS PRIOR TO DATE OF PLANTING. ALL PLANTS WHICH ARE FOUND UNSUITABLE IN GROWTH OR CONDITION OR WHICH ARE NOT TRUE TO NAME SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE PLANTS.
2. ALL PLANT MATERIAL SHALL BE TWICE TRANSPLANTED, NURSERY-GROWN OF SPECIMEN QUALITY. THEY SHALL BE OF SYMMETRICAL GROWTH, TYPICAL OF THE VARIETY AND SUPPLIED FROM SOURCES IN THE SAME HARDINESS ZONE AS THE DEVELOPMENT IS LOCATED AND FREE FROM OBJECTS AND DISEASE PRODIGES OR OBJECTABLE DISFIGUREMENTS. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
3. ALL PRECAUTIONS CUSTOMARY IN GOOD TRADE PRACTICE SHALL BE TAKEN IN PREPARING PLANTS FOR MOVING. ALL BALLED AND BURLAPPED PLANTS SHALL BE DUG TO MEET OR EXCEED THE USDA STANDARDS FOR NURSERY STOCK.
4. ALL PLANT MATERIAL SHALL MEET THE STANDARDS OF AMERICAN NURSERYMEN (1990) OR MOST RECENT EDITION, AND THE HEIGHT, SPREAD AND/OR CALIPER FOR TREES AND SHRUBS LISTED IN SECTION SIX (6), RECOMMENDED PLANT LIST.
5. PLANTS SHALL BE PROTECTED, TRANSPORTED AND HANDLED WITH UTMOST CARE TO INSURE ADEQUATE PROTECTION AGAINST INJURY.
6. ANY PLANT MATERIAL WHICH DOES NOT SURVIVE SHALL BE REPLACED BY THE DEVELOPER. FINANCIAL SECURITY SHALL BE POSTED WITH THE TOWNSHIP IN AN AMOUNT EQUAL TO THE ESTIMATED COST OF TREES AND PLANTINGS, TO BE RELEASED TWENTY FOUR (24) MONTHS FROM TOWNSHIP ACCEPTANCE OF THE INSTALLATION AND SATISFACTORY REPLACEMENT OF ALL DEAD PLANTINGS.
7. ONLY THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING AND LIGHTING LAYOUT MODIFICATIONS OR PLANT SUBSTITUTES WILL OCCUR WITHOUT THE APPROVAL OF THE TOWNSHIP ENGINEER. THERE WILL BE NO PRIOR APPROVAL TO MODIFICATIONS OCCURRING IN THE FIELD.
8. THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE. SHOULD ANY PLANT QUANTITY DISCREPANCY OCCUR, PLANTS SHALL BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE. ALL SHRUBBERY MATERIAL LOCATED WITHIN SIGHT TRIANGLES SHALL NOT EXCEED A MATURE HEIGHT OF 3' ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL SHADE TREES PLANTED OR EXISTING IN SIGHT TRIANGLES SHALL BE PRUNED SO AS NOT TO HAVE BRANCHES BELOW 7'-0".
9. ALL PLANT MATERIAL SHALL BE PROPERLY GUYED, STAKED, WRAPPED AND PLANTED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS.
10. PLASTIC CHAINS SHALL BE ATTACHED TO THE TREE AT TWO-THIRDS THE HEIGHT OF THE TREE AND SHOULD BE LOCATED AT POINTS SO AS NOT TO SPLIT THE TRUNKS OF MULTI-STEMMED TREES. PROVIDE TWO TO THREE TREE STAKES PER TREE AS NOTED ON THE PLANS. INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. PROVIDE TREE WRAP WITH A 50% OVERLAP. CUT AND REMOVE BURLAP FROM THE TOP 1/3 OF THE ROOT BALL.
11. PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS. BACKFILL PLANTING PITS WITH ONE PART EACH OF TOPSOIL, PEAT MOSS AND PARENT MATERIAL. IF WET SOIL CONDITIONS EXIST, THEN PLANTING PITS SHALL BE EXCAVATED AN ADDITIONAL 12" AND FILLED WITH SAND.
12. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT DID TO EXISTING GRADE.
13. NEWLY INSTALLED PLANTING MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION. REGULAR WATERING OF PLANT MATERIAL SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH AND SURVIVAL OF ALL PLANTS.
14. OPTIMUM PLANTING & SEEDING DATES ARE BETWEEN FEBRUARY 15 AND MAY 1 OR BETWEEN AUGUST 15 AND OCTOBER 15.
15. ALL PLANTING BEDS SHALL RECEIVE MINIMUM NATURAL 4" DEPTH OF SHREDDED HARDWOOD BARK.
16. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF 2 YEARS.



GRASS TO BE PLANTED UNLESS ADDITION IS BUILT

PROPOSED ADDITION
4,200 S.F. (FOOTPRINT)

PROPOSED GYMNASIUM ADDITION
TWO STORY
20,016 S.F. (FOOTPRINT)
21,947 S.F. PREVIOUSLY APPROVED UNDER 2008 MASTER PLAN



PENNINGTON PLANTING SCHEDULE - MAIN CAMPUS

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOTS	SPACING	NATIVE	NOTES
TREES								
T-AG	23	Ametanther x grandiflora 'Autum Brilliance'	Autumn Brilliance Serviceberry	8' - 10' H	B&B	as shown	YES	Multistem, no suckering at base
T-AS	2	Acer saccharum	Sugar Maple	8' - 10' H	B&B	as shown	YES	Full, dense, upright growth
T-BN	5	Betula nigra	River Birch	8' - 10' H	B&B	as shown	YES	Multistem, no suckering at base
T-CC	19	Cornus canadensis 'Forest Pansy'	Eastern Redbud	8' - 10' H	B&B	as shown	YES	Specimen quality
T-CF	8	Cornus florida f. rubra	Pink Flowering Dogwood	8' - 10' H	B&B	as shown	YES	Full, dense, upright growth
T-CFT	1	Cornus florida	Flowering Dogwood	...	TRANSPANT	as shown	YES	Memorial Transplant
T-CJ	1	Cercidiphyllum japonicum	Katsura Tree	8' - 10' H	B&B	as shown	NO	Full, dense, upright growth
T-CV	5	Chorizanthe virginica	White Fringetree	8' - 10' H	B&B	as shown	YES	Multistem, no suckering at base
T-FG	1	Fagus grandifolia	American Beech	8' - 10' H	B&B	as shown	YES	Full, dense, upright growth
T-MV	12	Magnolia virginiana	Sweetbay Magnolia	8' - 10' H	B&B	as shown	YES	Multistem, no suckering at base
T-NS	10	Nyssa sylvatica	Black Gum	8' - 10' H	B&B	as shown	YES	Full, dense, upright growth
T-PYA	3	Prunus yedoensis 'Akebono'	Yoshino Cherry	6' - 8' H	B&B	as shown	NO	Single stem, full
T-QA	7	Quercus alba	White Oak	8' - 10' H	B&B	as shown	YES	Full, dense, upright growth
T-ZS	10	Zelkova serrata	White Oak	8' - 10' H	B&B	as shown	NO	Full, dense, upright growth
SHRUBS								
S-AM	34	Aronia melanocarpa	Black Chokecherry	5 gal	container	as shown	YES	Full, dense, symmetrical growth
S-CA	3	Ceanothus americanus	New Jersey Tea	5 gal	container	as shown	YES	Full, dense, symmetrical growth
S-CLA	16	Clethra alnifolia	Summersweet	5 gal	container	as shown	YES	Full, dense, symmetrical growth
S-CS	25	Cornus sericea	Red Twig Dogwood	10 gal	container	as shown	YES	Full, dense, symmetrical growth
S-FG	152	Fothergilla gardenii	Dwarf Witchhazel	5 gal	container	as shown	NO	Full, dense, symmetrical growth
S-HQP	15	Hydrangea quercifolia 'Pee Wee'	Pee Wee Oakleaf Hydrangea	5 gal	container	as shown	NO	Full, dense, symmetrical growth
S-HQS	28	Hydrangea quercifolia 'Snow Queen'	Snow Queen Oakleaf Hydrangea	5 gal	container	as shown	NO	Full, dense, symmetrical growth
S-IG	38	Ilex glabra	Common Holly	10 gal	container	as shown	YES	Full, dense, symmetrical growth
S-IGS	189	Ilex glabra 'Shamrock'	Shamrock/Irkberry Holly	5 gal	container	as shown	YES	Full, dense, symmetrical growth
S-IV	20	Ilex verticillata	Common Winterberry	10 gal	container	as shown	YES	Full, dense, symmetrical growth
S-RA	91	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal	container	24" o.c.	YES	Full, dense, symmetrical growth
S-RV	34	Rhododendron viscosum	Swamp Azalea	5 gal	container	as shown	YES	Full, dense, symmetrical growth

GRASSES								
G-PV	53	Panicum virgatum	Switchgrass	2 gal	container	as shown	YES	
G-SS	357	Schizachyrium scoparium	Little Bluestem	1 gal	container	as shown	YES	
PERENNIALS								
P-AH	166	Amonia hutchinsii	Blue Star	2 gal	container	as shown	NO	
P-AT	14	Amonia tabernaemontana	Willow Blue Star	2 gal	container	as shown	YES	Full, dense, symmetrical growth
P-BA	44	Baptisia australis	Blue False Indigo	1 gal	container	12" o.c.	YES	
P-CA	46	Carex appalachica	Appalachian sedge	1 gal	container	12" o.c.	YES	
P-CG	41	Chionodoxa glabra	Turkibead	1 gal	container	as shown	YES	
P-CP	1810	Carex pensylvanica	Pennsylvania Sedge	1 gal	container	8" o.c.	YES	
P-CV	75	Corsosia verticillata 'Moonbeam'	Ticksseed Moonbeam	1 gal	container	as shown	YES	
P-EF	43	Eupatorium fistulosum	Joe Pye's Weed	2 gal	container	as shown	YES	Variety 'Album' or 'Bartered Bride' or 'Ivory Tower'
P-EP	25	Echinacea purpurea	Purple coneflower	1 gal	container	as shown	YES	Full, dense, symmetrical growth
P-HV	1350	Huchera villosa	Hairy alumroot	1 gal	container	12" o.c.	YES	Full, dense, symmetrical growth
P-MV	66	Mertensia virginica	Virginia Bluebells	1 gal	container	18" o.c.	YES	Plant goes dormant in summer
P-RF	350	Rustocallis fulgida	Black-Eyed Susan	1 gal	container	20" o.c.	YES	Leave seedheads through winter
GROUNDCOVERS								
G-JR	1673	Juniperus rigida conferta	Shore Juniper	2 gal	container	24" o.c.	NO	
G-TC	3766	Tiarella cordifolia 'Pink Skyrocket'	Pink Skyrocket Foamflower	1 gal	container	12" o.c.	YES	

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DIGI SAFELY
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DATE: MAY 20, 2022
SCALE: 1" = 30'
DESIGNED BY: JAB
DRAWN BY: RRF/RKY
CHECKED BY: PDQ
JOB NO. 20-02-PEB

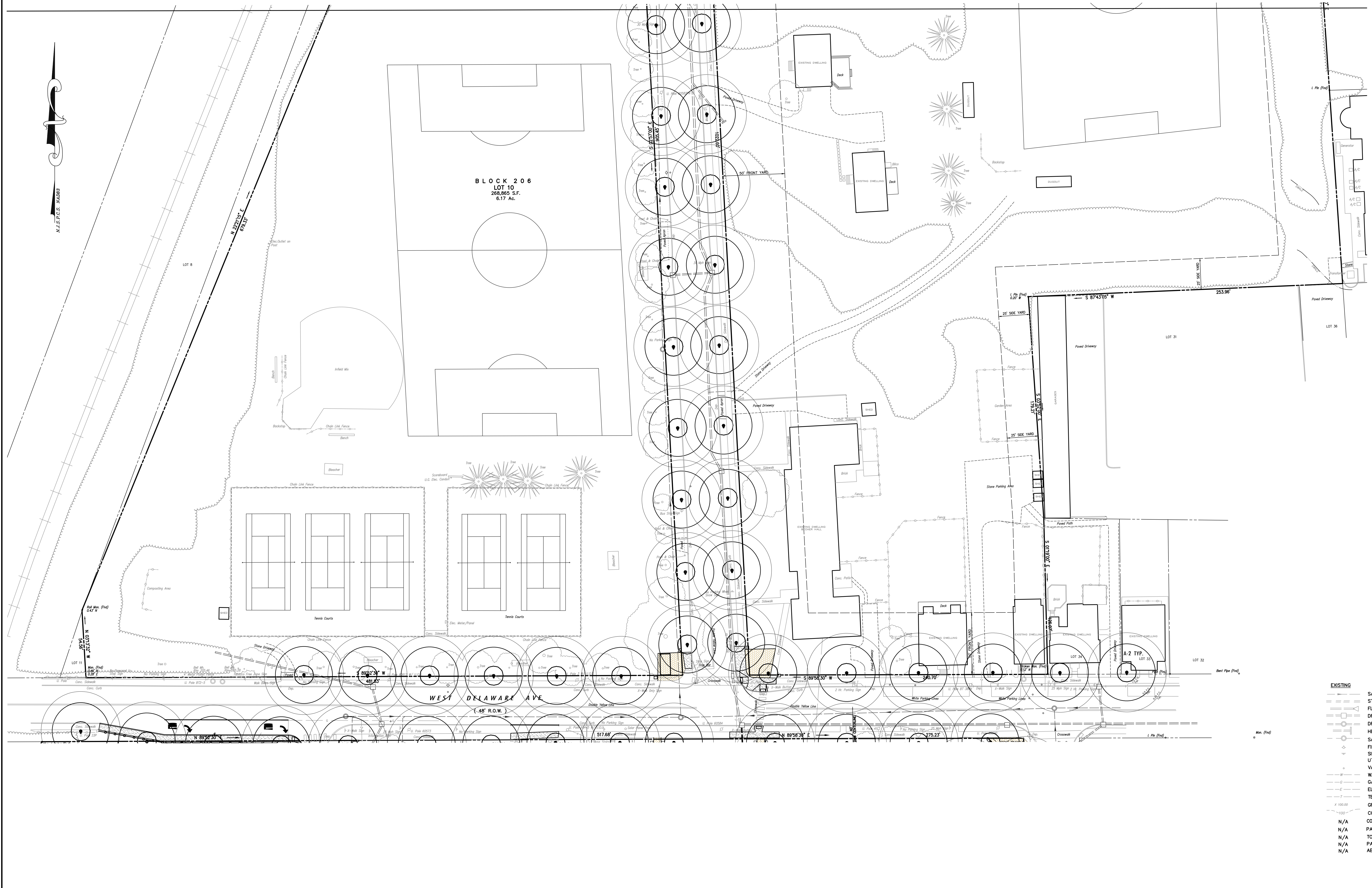
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PH: 908.689.1200 FAX: 908.689.1201
CERT. OF AUTHORIZATION NO. 246A28123100

LANDSCAPING PLAN
FOR
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PRELIMINARY & FINAL SITE PLAN
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
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JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246052258005

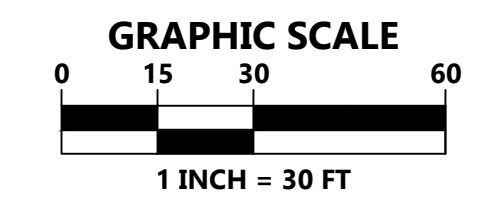
5/20/22 DATE

MATCH LINE A



LEGEND

EXISTING	PROPOSED
[Symbol]	[Symbol] SANITARY SEWER
[Symbol]	[Symbol] FLARED END SECTION
[Symbol]	[Symbol] DRAINAGE INLET
[Symbol]	[Symbol] DRAINAGE MANHOLE
[Symbol]	[Symbol] HEADWALL
[Symbol]	[Symbol] SANITARY SEWER MH
[Symbol]	[Symbol] FIRE HYDRANT
[Symbol]	[Symbol] SIGN
[Symbol]	[Symbol] UTILITY POLE
[Symbol]	[Symbol] VALVE
[Symbol]	[Symbol] WATER MAIN
[Symbol]	[Symbol] GAS MAIN
[Symbol]	[Symbol] ELECTRIC LINE
[Symbol]	[Symbol] TELEPHONE LINE
[Symbol]	[Symbol] GRADE ELEVATION
[Symbol]	[Symbol] CONTOUR ELEVATION
[Symbol]	[Symbol] CONCRETE/PAVER REMOVAL
[Symbol]	[Symbol] PAVEMENT REMOVAL
[Symbol]	[Symbol] TO BE REMOVED
[Symbol]	[Symbol] PAVEMENT MILLING
[Symbol]	[Symbol] ABANDON IN PLACE
[Symbol]	[Symbol] AIP



CONSTRUCTION NOTES:

- ALL CONSTRUCTION DEBRIS TO BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS.
- CONTRACTOR TO PROVIDE SECURE STAGING AREA ON-SITE. LOCATION TO BE AGREED UPON BY SCHOOL.
- CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS FOR SCHOOL STAFF AND STUDENTS DURING CONSTRUCTION.
- CONTRACTOR TO PROVIDE EMERGENCY ACCESS TO SCHOOL AT ALL TIMES.
- ALL SEDIMENT DROPPED, SPILLED OR TRACKED ON PAVED SURFACES TO BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL SOIL IMPORT OR EXPORT PERMIT(S) REQUIRED, INCLUDING FEES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL ON-SITE SAFETY AND SECURITY. ALL SAFETY PRECAUTIONS MUST BE UNDERTAKEN AND MAINTAINED AS REQUIRED BY LOCAL, STATE AND FEDERAL CODES. NO SEPARATE PAYMENT SHALL BE MADE FOR ON-SITE SAFETY & SECURITY. THE COSTS OF ON-SITE SAFETY AND SECURITY SHALL BE INCLUDED IN COST OF THE WORK.
- ALL CONCRETE SIDEWALK TO BE ADA COMPLIANT WITH A MAX. CROSS SLOPE OF 2.0% AND A MAX. RUNNING SLOPE OF 5.0%. SIDEWALK WITH A RUNNING SLOPE GREATER THAN 5% REQUIRES AN ADA COMPLIANT HANDRAIL. NO SIDEWALK SHALL HAVE A RUNNING SLOPE GREATER THEN 8.33%.
- ALL EQUIPMENT, MATERIALS, ETC. SHALL BE CONFINED TO THE DESIGNATED WORK AREA. NO USE OF ADDITIONAL AREA, EVEN FOR EQUIPMENT OR MATERIAL STORAGE, IS PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE OWNER. DESIGNATED WORK AREA SHALL BE DETERMINED AT PRE-CONSTRUCTION MEETING.
- ALL DISTURBED AREAS TO BE STABILIZED WITH 5 INCHES OF TOPSOIL, FERTILIZER, LIME, MULCH AND TACK WITHIN LIMIT OF DISTURBANCE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING INFRASTRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND AND ALL OF THE EXISTING INFRASTRUCTURE THE CONTRACTOR DAMAGED DURING CONSTRUCTION.
- ALL BACKFILL, FILL AREAS AND SUBGRADES SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNLESS OTHERWISE NOTED ON THE PLANS.

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DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB
AUTH. DATE:	5/20/22
DATE:	5/20/22

James A. Bash
JAMES A. BASH
 NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE05225005

Van Cleaf
 ENGINEERING WITH FOCUS

Van Cleaf Engineering Associates, LLC
 4 MAIN STREET, SUITE 100, MARLTON, NJ 08053
 WEB: WWW.VANCLEEFENGINEERING.COM
 PHONE: (856) 682-1100
 CERT. OF AUTHORIZATION 100-3462813230

LIGHTING PLAN
 FOR
**THE PENNINGTON SCHOOL MASTER PLAN
 PRELIMINARY & FINAL SITE PLAN**
 BLOCK 206, LOT 10 & BLOCK 205, LOT 1
 PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

07B
17

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Filepath: \\020202\DRAWINGS\PENNINGTON_SCHOOL_MASTER_PLAN_202002\PEB.dwg, plotfile: 07/2022/225133.DWG

WEST DELAWARE AVE
48' R.O.W.

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 - NO CERTIFICATION IS MADE BY VCEA AS TO THE ACTUAL UNDERGROUND POSITION OF ANY UTILITIES EXCEPT TO THE COMPLETENESS AND/OR ACCURACY OF UTILITY INFORMATION PROVIDED BY OTHERS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION ON THIS PROJECT. THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF ANY CONFLICTS.
 - IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL 1-800-272-1000 TO ORDER UTILITY MARKOUTS.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5" TOPSOIL, SEED, FERTILIZER, LIME, SEED AND MULCH.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL A MINIMUM OF 48 HOURS IN ADVANCE.

- CONSTRUCTION NOTES:**
- ALL CONSTRUCTION DEBRIS TO BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS.
 - CONTRACTOR TO PROVIDE SECURE STAGING AREA ON-SITE. LOCATION TO BE AGREED UPON BY SCHOOL.
 - CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS FOR SCHOOL STAFF AND STUDENTS DURING CONSTRUCTION.
 - CONTRACTOR TO PROVIDE EMERGENCY ACCESS TO SCHOOL AT ALL TIMES.
 - ALL SEDIMENT DROPPED, SPILLED OR TRACKED ON PAVED SURFACES TO BE REMOVED IMMEDIATELY.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL SOIL IMPORT OR EXPORT PERMITS(S) REQUIRED, INCLUDING FEES.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL ON-SITE SAFETY AND SECURITY. ALL SAFETY PRECAUTIONS MUST BE UNDERTAKEN AND MAINTAINED AS REQUIRED BY LOCAL, STATE AND FEDERAL CODES. NO SEPARATE PAYMENT SHALL BE MADE FOR ON-SITE SAFETY & SECURITY. THE COSTS OF ON-SITE SAFETY AND SECURITY SHALL BE INCLUDED IN COST OF THE WORK.
 - ALL CONCRETE SIDEWALK TO BE ADA COMPLIANT WITH A MAX CROSS SLOPE OF 2.0% AND A MAX RUNNING SLOPE OF 5.0%. SIDEWALK WITH A RUNNING SLOPE GREATER THAN 5% REQUIRES AN ADA COMPLIANT HANDRAIL. NO SIDEWALK SHALL HAVE A RUNNING SLOPE GREATER THAN 8.33%.
 - ALL EQUIPMENT, MATERIALS, ETC. SHALL BE CONFINED TO THE DESIGNATED WORK AREA. NO USE OF ADDITIONAL AREA FOR EQUIPMENT OR MATERIAL STORAGE IS PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE OWNER. DESIGNATED WORK AREA SHALL BE DETERMINED AT PRE-CONSTRUCTION MEETING.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5 INCHES OF TOPSOIL, FERTILIZER, LIME, MULCH AND TACK WITHIN LIMIT OF DISTURBANCE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING INFRASTRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND ALL OF THE EXISTING INFRASTRUCTURE THE CONTRACTOR DAMAGED DURING CONSTRUCTION.
 - ALL BACKFILL, FILL AREAS AND SUBGRADES SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNLESS OTHERWISE NOTED ON THE PLANS.

$\Delta = 04^{\circ}52'19"$
 $R = 5,680.00'$
 $T = 241.62'$
 $L = 482.58'$
 $CH = 482.63'$
 $N 01^{\circ}00'31" E$

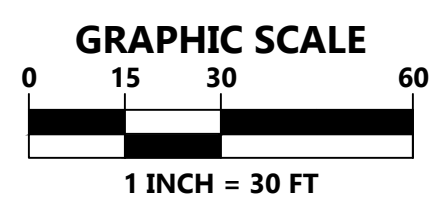
PROPOSED ADDITION
4,200 S.F. (FOOTPRINT)

PROPOSED GYMNASIUM ADDITION
TWO STORY
20,016 S.F. (FOOTPRINT)
21,947 S.F. PREVIOUSLY APPROVED UNDER 2008 MASTER PLAN

BLOCK 502
LOT 4
1,433,311 S.F.
32,904 AC.

LEGEND

EXISTING	PROPOSED



MATCH LINE B

PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESS OR COLORIZED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE USER'S DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

SERIAL NO.
811
TO LOCATE UNDERGROUND UTILITIES 15 FEET OR MORE TO ONE, BLADE OR THREE (3) HORIZONTAL DAYS NOTICE
IT'S THE LAW!
Dig Safely
1-800-375-1000

DATE:	MAY 20, 2022
SCALE:	1" = 30'
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PB

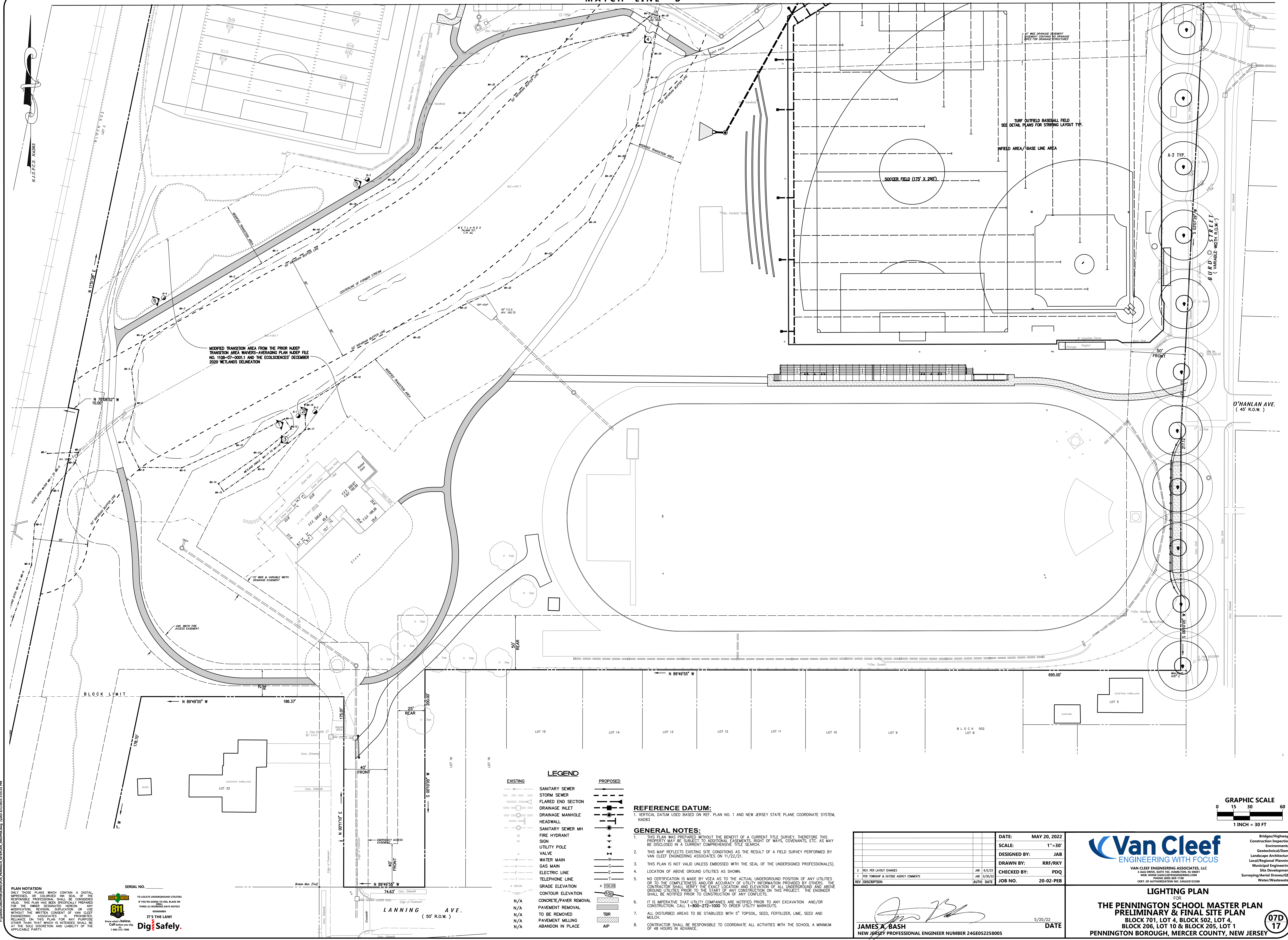
JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005
DATE: 5/20/22

Van Cleef
ENGINEERING WITH FOCUS
VAN CLEEF ENGINEERING ASSOCIATES, LLC
440A DRIVE, SUITE 310, HANOVER, NJ 08901
WWW.VANCLEEFENGINEERING.COM
PHONE: (908) 889-1100
CERT. OF AUTHORIZATION NO. 2562823200

LIGHTING PLAN
FOR
THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

Briggs/Highways
Construction Inspection
Environmental
Geotechnical/Drains
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

07C
17

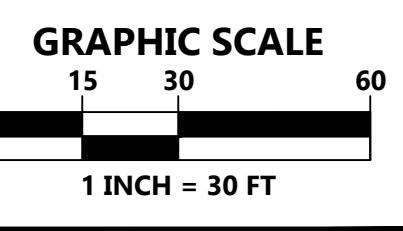


MODIFIED TRANSITION AREA FROM THE PRIOR NUDEP TRANSITION AREA W/ADJUSTING PLAN NUDEP NO. 1108-07-0001.1 AND THE ECOSCIENCES' DECEMBER 2020 WETLANDS DELINEATION

TURF OUTFIELD BASEBALL FIELD SEE DETAIL PLANS FOR STRIPING LAYOUT TYP.

SOCCER FIELD (175' X 285')

O'HANLAN AVE. (45' R.O.W.)



LEGEND

EXISTING	PROPOSED

REFERENCE DATUM:
1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83

- GENERAL NOTES:**
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE SURVEY. THEREFORE THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS, RIGHT OF WAYS, COVENANTS, ETC. AS MAY BE DISCLOSED IN A CURRENT COMPREHENSIVE TITLE SEARCH.
 - THIS MAP REFLECTS EXISTING SITE CONDITIONS AS THE RESULT OF A FIELD SURVEY PERFORMED BY VAN CLEEF ENGINEERING ASSOCIATES ON 11/22/21.
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 - IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL 1-800-272-1000 TO ORDER UTILITY MARKOUTS.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5" TOPSOIL, SEED, FERTILIZER, LIME, SEED AND MULCH.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL A MINIMUM OF 48 HOURS IN ADVANCE.

DATE:	MAY 20, 2022
SCALE:	1"=30'
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB
DATE:	5/20/22

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005

Van Cleef
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
1000 W. STATE ST. SUITE 100
TRENTON, NJ 08611
TEL: 609.392.1100
WWW.VANCLEEFENGINEERING.COM

LIGHTING PLAN
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

07D
17

PLAN NOTATION
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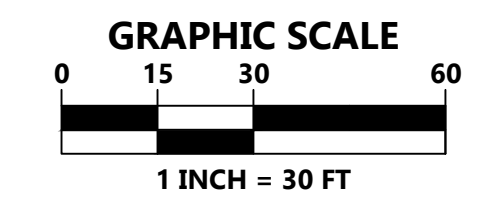
811
Dig Safely.
IT'S THE LAW!
Call before you dig.
1-800-375-1000

PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY



EXISTING	LEGEND	PROPOSED
	SANITARY SEWER	
	FLARED END SECTION	
	DRAINAGE INLET	
	DRAINAGE MANHOLE	
	HEADWALL	
	SANITARY SEWER MH	
	FIRE HYDRANT	
	SIGN	
	UTILITY POLE	
	VALVE	
	WATER MAIN	
	GAS MAIN	
	ELECTRIC LINE	
	TELEPHONE LINE	
	GRADE ELEVATION	
	CONTOUR ELEVATION	
	LIMIT OF DISTURBANCE	
	SILT FENCE	
	INLET PROTECTION	

TOTAL PROJECT DISTURBANCE:
393,351 S.F. (9.030 AC.)



- CONSTRUCTION NOTES:**
- ALL CONSTRUCTION DEBRIS TO BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS.
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 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5 INCHES OF TOPSOIL, FERTILIZER, LIME, MULCH AND TACK WITHIN LIMIT OF DISTURBANCE.
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 - ALL BACKFILL, FILL AREAS AND SUBGRADES SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNLESS OTHERWISE NOTED ON THE PLANS.

- REFERENCE DATUM:**
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 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL. A MINIMUM OF 48 HOURS IN ADVANCE.

DATE:	MAY 20, 2022
SCALE:	1"=30'
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB
DATE:	5/20/22

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005

Van Cleaf
ENGINEERING WITH FOCUS

1600 ROUTE 100, SUITE 100, MARLTON, NJ 08053
PHONE: (856) 482-1100
FAX: (856) 482-1100
CENT. OF AUTHORITY: 100.100.100.100

SOIL EROSION & SEDIMENT CONTROL PLAN
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

08B
17

PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSED OR COLORED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, SUPPLEMENT OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

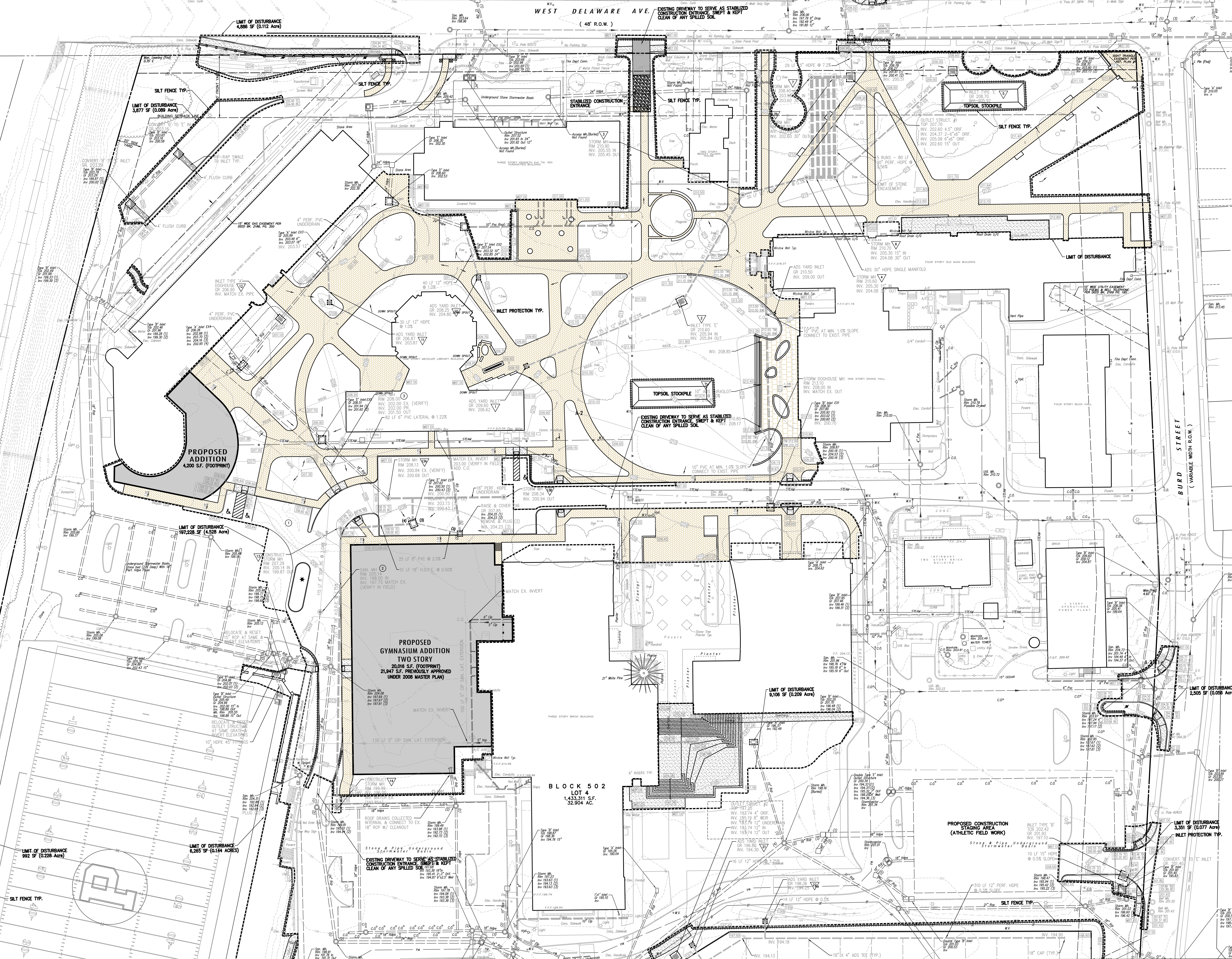


WEST DELAWARE AVE. (48' R.O.W.)

REFERENCE DATUM:
1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83.

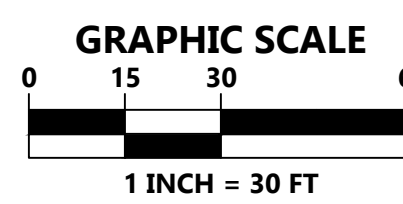
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4. LOCATION OF ABOVE GROUND UTILITIES AS SHOWN.
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8. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL A MINIMUM OF 48 HOURS IN ADVANCE.

CONSTRUCTION NOTES:
1. ALL CONSTRUCTION DEBRIS TO BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS.
2. CONTRACTOR TO PROVIDE SECURE STAGING AREA ON-SITE. LOCATION TO BE AGREED UPON BY SCHOOL.
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4. CONTRACTOR TO PROVIDE EMERGENCY ACCESS TO SCHOOL AT ALL TIMES.
5. ALL SEDIMENT DROPPED, SPILLED OR TRACKED ON PAVED SURFACES TO BE REMOVED IMMEDIATELY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL SOIL IMPORT OR EXPORT PERMITS(S) REQUIRED, INCLUDING FEES.
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8. ALL CONCRETE SIDEWALK TO BE ADA COMPLIANT WITH A MAX. CROSS SLOPE OF 2.08% AND A MAX. RUNNING SLOPE OF 5.02%. SIDEWALK WITH A RUNNING SLOPE GREATER THAN 5% REQUIRES AN ADA COMPLIANT HANDRAIL. NO SIDEWALK SHALL HAVE A RUNNING SLOPE GREATER THAN 8.33%.
9. ALL EQUIPMENT, MATERIALS, ETC. SHALL BE CONFINED TO THE DESIGNATED WORK AREA. NO USE OF ADDITIONAL AREA FOR EQUIPMENT OR MATERIAL STORAGE IS PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE OWNER. DESIGNATED WORK AREA SHALL BE DETERMINED AT PRE-CONSTRUCTION MEETING.
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12. ALL BACKFILL, FILL AREAS AND SUBGRADE SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNLESS OTHERWISE NOTED ON THE PLANS.



LEGEND

EXISTING	PROPOSED
[Symbol]	[Symbol] SANITARY SEWER
[Symbol]	[Symbol] STORM SEWER
[Symbol]	[Symbol] FLARED END SECTION
[Symbol]	[Symbol] DRAINAGE INLET
[Symbol]	[Symbol] DRAINAGE MANHOLE
[Symbol]	[Symbol] SANITARY SEWER MH
[Symbol]	[Symbol] FIRE HYDRANT
[Symbol]	[Symbol] SIGN
[Symbol]	[Symbol] UTILITY POLE
[Symbol]	[Symbol] VALVE
[Symbol]	[Symbol] WATER MAIN
[Symbol]	[Symbol] GAS MAIN
[Symbol]	[Symbol] ELECTRIC LINE
[Symbol]	[Symbol] TELEPHONE LINE
[Symbol]	[Symbol] GRADE ELEVATION
[Symbol]	[Symbol] CONTOUR ELEVATION
[Symbol]	[Symbol] LIMIT OF DISTURBANCE
[Symbol]	[Symbol] SILT FENCE
[Symbol]	[Symbol] INLET PROTECTION



MATCH LINE B

TOTAL PROJECT DISTURBANCE:
393,351 S.F. (9.030 AC.)

DATE: MAY 20, 2022
SCALE: 1"=30'
DESIGNED BY: JAB
DRAWN BY: RRF/RKY
CHECKED BY: PDQ
JOB NO. 20-02-PEB

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246052258005
5/20/22 DATE

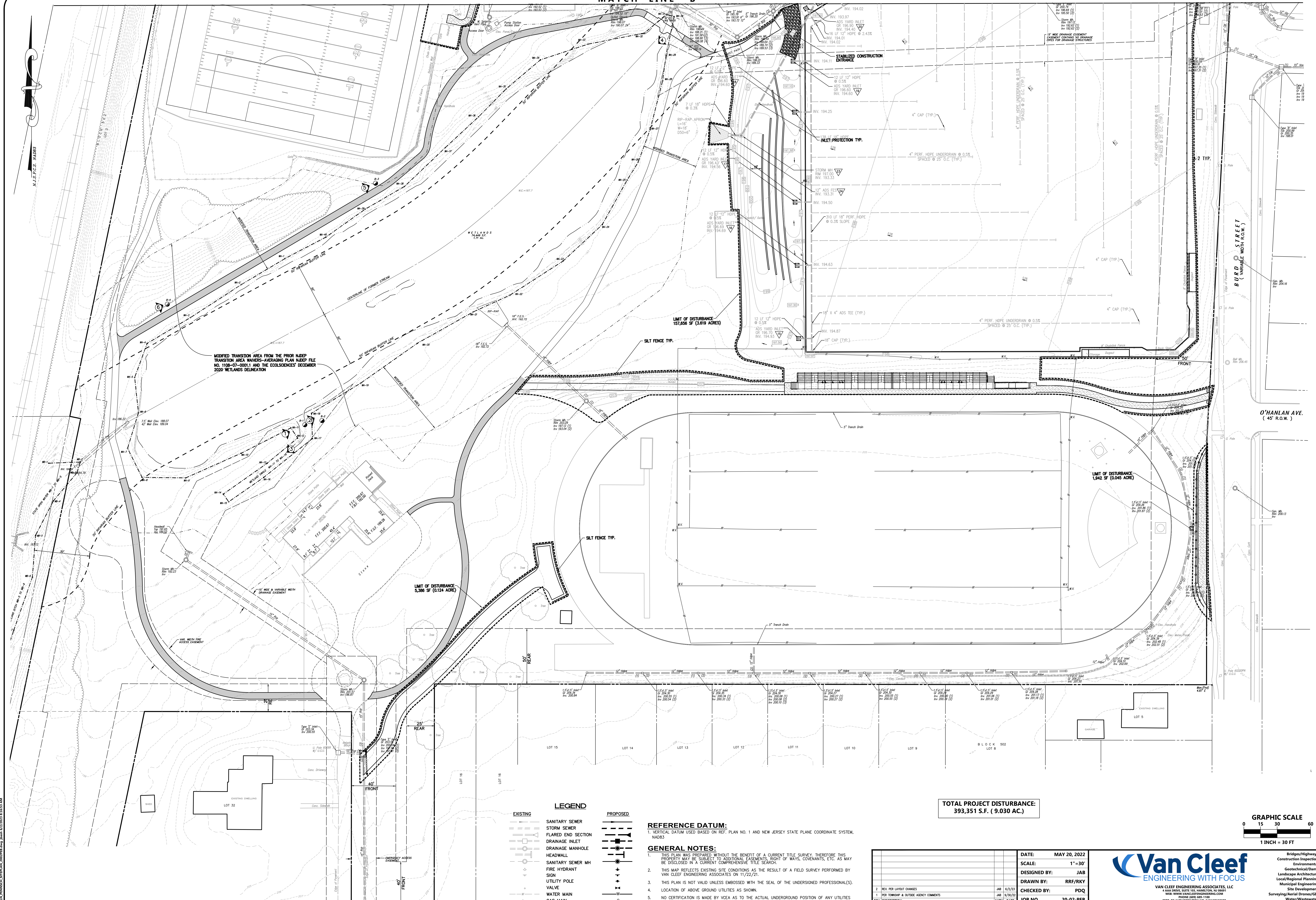
Van Cleaf
ENGINEERING WITH FOCUS
VAN CLEEF ENGINEERING ASSOCIATES, LLC
1484 DRIVE, SUITE 100, HANOVER, NJ 08031
WWW.VANCLEEFENGINEERING.COM
PH: 609.689.1100
CERT. OF AUTHORIZATION NO. 246052258005

SOIL EROSION & SEDIMENT CONTROL PLAN
FOR
THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

17

PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESS OF THE COLLECTED IN SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED PERSON. ANY MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE USER'S DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

SERIAL NO. 811
IT'S THE LAW!
DigIt Safely.
1-800-272-1000



MODIFIED TRANSITION AREA FROM THE PRIOR NUDEP TRANSITION AREA WAKERS-AVERAGING PLAN UNDER FILE NO. 1108-07-0001.1 AND THE ECOLOGISTS' DECEMBER 2020 WETLANDS DELINEATION

LIMIT OF DISTURBANCE 157,856 SF (3.619 ACRES)

LIMIT OF DISTURBANCE 1,942 SF (0.046 ACRE)

LIMIT OF DISTURBANCE 5,386 SF (0.124 ACRE)

TOTAL PROJECT DISTURBANCE: 393,351 S.F. (9.030 AC.)

PLAN NOTATION ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSION OF COLORED SHAL... RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED... THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREIN... MODIFICATION, REVISION, COUNTERPART OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE USER'S SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

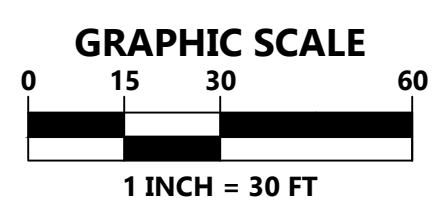
SERIAL NO. 811 TO LOCATE UNDERGROUND UTILITIES IF YOU'RE GOING TO THE BLADE OR THREE (3) WORKING DAYS NOTICE MEMBER IT'S THE LAW! Dig Safely. Call before you dig. 1-800-375-1888

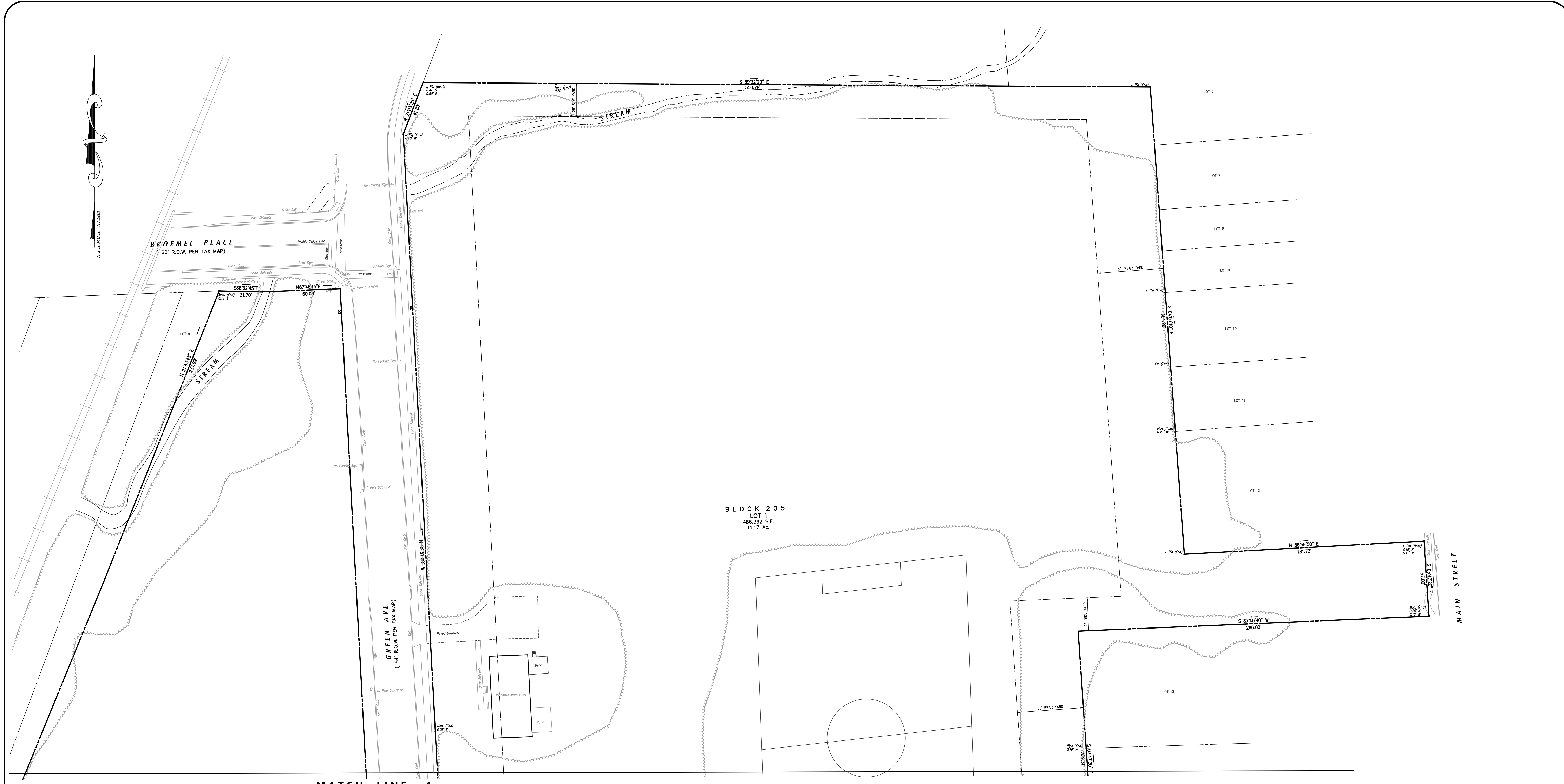
LEGEND table with columns for EXISTING and PROPOSED symbols for SANITARY SEWER, STORM SEWER, DRAINAGE INLET, etc.

- REFERENCE DATUM: 1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83
GENERAL NOTES: 1. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE SURVEY... 2. THIS MAP REFLECTS EXISTING SITE CONDITIONS... 3. THIS PLAN IS NOT VALID UNLESS EMBOSSED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL(S)... 4. LOCATION OF ABOVE GROUND UTILITIES AS SHOWN... 5. NO CERTIFICATION IS MADE BY VCEA AS TO THE ACTUAL UNDERGROUND POSITION OF ANY UTILITIES... 6. IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION... 7. ALL DISTURBED AREAS TO BE STABILIZED WITH 5" TOPSOIL, SEED, FERTILIZER, LIME, SEED AND MULCH... 8. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL A MINIMUM OF 48 HOURS IN ADVANCE.

Project information box including DATE (MAY 20, 2022), SCALE (1"=30'), DESIGNED BY (JAB), DRAWN BY (RRF/RKY), CHECKED BY (PDQ), JOB NO. (20-02-PEB), and signature of JAMES A. BASH, NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246E05228005.

Van Cleef Engineering with Focus logo and title block: SOIL EROSION & SEDIMENT CONTROL PLAN FOR THE PENNINGTON SCHOOL MASTER PLAN PRELIMINARY & FINAL SITE PLAN. Includes address: BLOCK 701, LOT 4, BLOCK 502, LOT 4, BLOCK 206, LOT 10 & BLOCK 205, LOT 1 PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY.





MATCH LINE A

Soil De-compaction and Testing Requirements

Soil Compaction Testing Requirements

- Subgrade with prior to the application of topsoil (see permanent seeding and stabilization notes for topsoil requirements) shall be free of excessive compaction to a depth of 6.0 inches to enhance the establishment of permanent vegetation cover.
- Areas of the site which are subject to compaction testing and/or mitigation are graphically denoted on the certified soil erosion control plan.
- Compaction testing locations are denoted on the plan. A copy of the plan or portion of the plan shall be used to mark locations of tests, and attached to the compaction mitigation verification form, available from the local soil conservation district. This form must be filled out and submitted prior to receiving a certificate of compliance from the district.
- In the event that testing indicates compaction in excess of the maximum thresholds indicated for the simplified testing methods (see details below), the contractor/owner shall have the option to perform either (1) compaction mitigation over the entire mitigation area denoted on the plan (including exempt areas), or (2) perform additional, more detailed testing to establish the limits of excessive compaction whereupon only the excessively compacted areas would require compaction mitigation. Additional detailed testing shall be performed by a trained, licensed professional.

Compaction Testing Methods

- Probing Wire Test (see detail)
- Handheld Penetrometer Test (see detail)
- Tube Bulk Density Test (licensed professional engineer required)
- Nuclear Density Test (licensed professional engineer required)

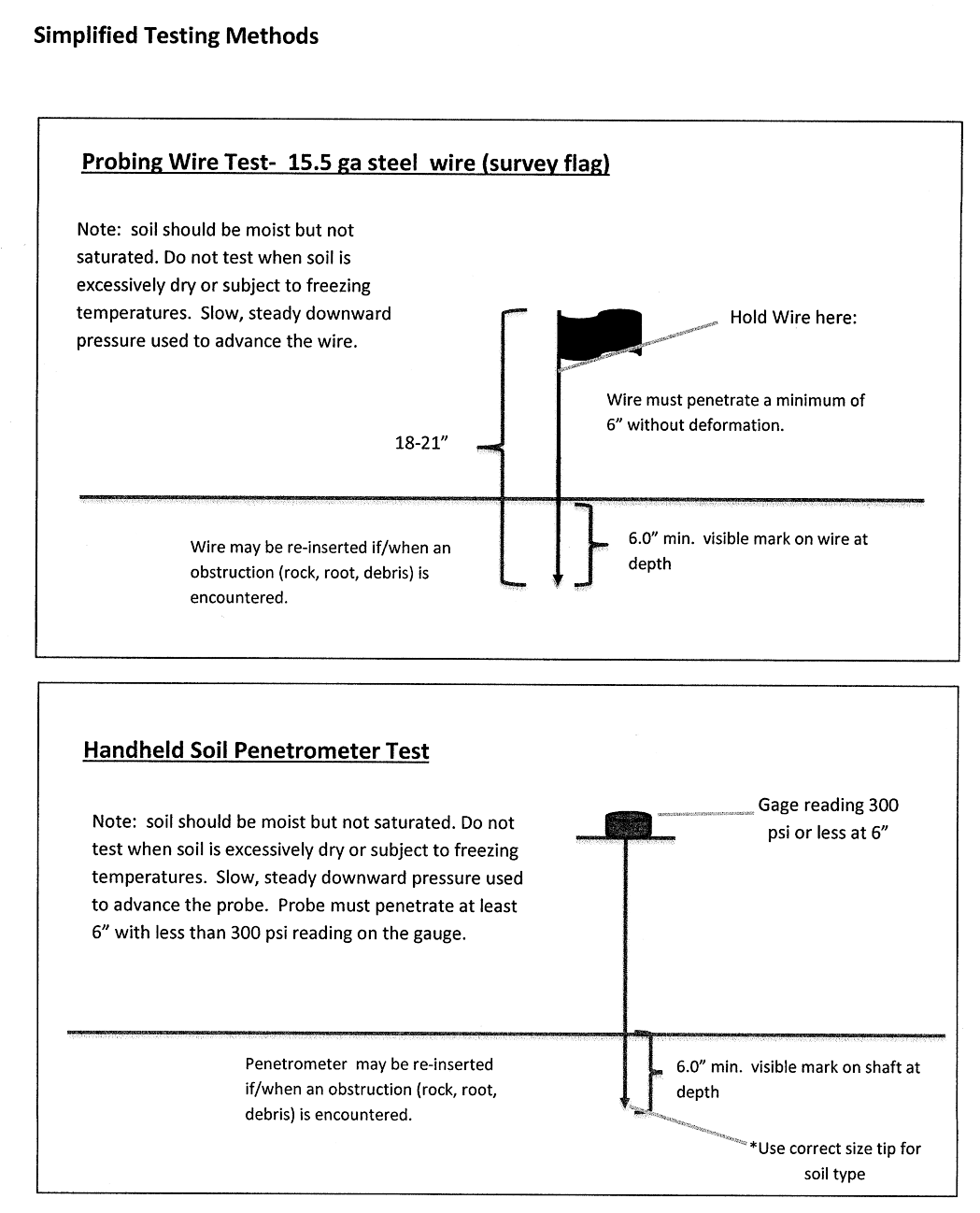
Note: Additional testing methods which conform to ASTM standards and specifications, and which produce a dry weight, soil bulk density measurement may be allowed subject to District approval.

Soil compaction testing is not required if when subsoil compaction remediation (scarification/tillage (6" minimum depth) or similar) is proposed as part of the sequence of construction.

Procedures for Soil Compaction Mitigation

Procedures shall be used to mitigate excessive soil compaction prior to placement of topsoil and establishment of permanent vegetation cover.

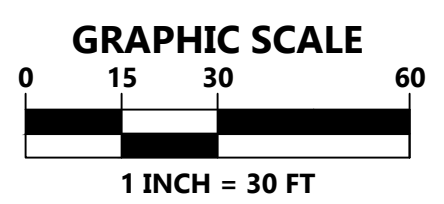
Restoration of compacted soils shall be through deep scarification/tillage (6" minimum depth) where there is no danger to underground utilities (cables, irrigation systems, etc.). In the alternative, another method as specified by a New Jersey Licensed Professional Engineer may be substituted subject to District Approval.



SOIL MANAGEMENT LEGEND

SOIL COMPACTION TESTING AREAS

RECOMMENDED SOIL COMPACTION TEST LOCATION



DATE: MAY 20, 2022	
SCALE: 1"=30'	
DESIGNED BY: JAB	
DRAWN BY: RRF/RKY	
CHECKED BY: PDQ	
REV. DESCRIPTION	JOB NO. 20-02-PEB
2 REV. PER LAYOUT CHANGES	JAB 6/2/22
1 PER TOWNSHIP & OUTSIDE AGENCY COMMENTS	JAB 6/20/22
DATE	AUTH
DATE: 5/20/22	
DATE	
DATE	

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005

Van Cleaf
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
444A DRIVE, SUITE 103, HANDELTON, NJ 08041
WWW.VANCLEEFENGINEERING.COM
PHONE: 609-398-1100
FAX: 609-398-1101
CERT. OF AUTHORIZATION NO. 24A0219230

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

SOIL MANAGEMENT & PREPARATION PLAN
FOR
THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN
BLOCK 206, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

09A
17

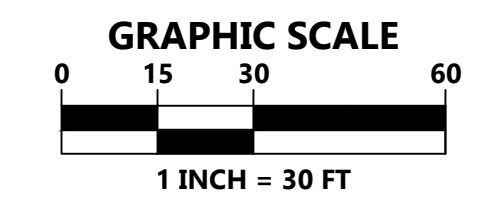
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811
Dig Safely.
1.800.371.1600



LEGEND

EXISTING	PROPOSED
[Symbol]	[Symbol] SANITARY SEWER
[Symbol]	[Symbol] FLARED END SECTION
[Symbol]	[Symbol] DRAINAGE INLET
[Symbol]	[Symbol] DRAINAGE MANHOLE
[Symbol]	[Symbol] HEADWALL
[Symbol]	[Symbol] SANITARY SEWER MH
[Symbol]	[Symbol] FIRE HYDRANT
[Symbol]	[Symbol] SIGN
[Symbol]	[Symbol] UTILITY POLE
[Symbol]	[Symbol] VALVE
[Symbol]	[Symbol] WATER MAIN
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[Symbol]	[Symbol] PAVEMENT REMOVAL
[Symbol]	[Symbol] TO BE REMOVED
[Symbol]	[Symbol] PAVEMENT MILLING
[Symbol]	[Symbol] ABANDON IN PLACE
[Symbol]	[Symbol] AIP



- CONSTRUCTION NOTES:**
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 - CONTRACTOR TO PROVIDE SECURE STAGING AREA ON-SITE. LOCATION TO BE AGREED UPON BY SCHOOL.
 - CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS FOR SCHOOL STAFF AND STUDENTS DURING CONSTRUCTION.
 - CONTRACTOR TO PROVIDE EMERGENCY ACCESS TO SCHOOL AT ALL TIMES.
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 - ALL CONCRETE SIDEWALK TO BE ADA COMPLIANT WITH A MAX. GROSS SLOPE OF 2.0% AND A MAX. RUNNING SLOPE OF 5.0%. SIDEWALK WITH A RUNNING SLOPE GREATER THAN 5% REQUIRES AN ADA COMPLIANT HANDRAIL. NO SIDEWALK SHALL HAVE A RUNNING SLOPE GREATER THAN 6.33%.
 - ALL EQUIPMENT, MATERIALS, ETC. SHALL BE CONFINED TO THE DESIGNATED WORK AREA. NO USE OF ADDITIONAL AREA, EVEN FOR EQUIPMENT OR MATERIAL STORAGE, IS PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE OWNER. DESIGNATED WORK AREA SHALL BE DETERMINED AT PRE-CONSTRUCTION MEETING.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5 INCHES OF TOPSOIL, FERTILIZER, LIME, MULCH AND TACK WITHIN LIMIT OF DISTURBANCE.
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 - ALL BACKFILL, FILL AREAS AND SUBGRADES SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNLESS OTHERWISE NOTED ON THE PLANS.

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DATE:	MAY 20, 2022
SCALE:	1"=30'
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.	20-02-PEB
AUTH. DATE:	5/20/22
DATE:	DATE

JAMES A. BASH
 NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246E052258005

Van Cleaf
 ENGINEERING WITH FOCUS

4 MAIN ST., SUITE 100, MARLTON, NJ 08053
 WWW.VANCLEEFENGINEERING.COM
 PHONE: (856) 682-1100
 CELL: (856) 682-1100
 FAX: (856) 682-1100

SOIL MANAGEMENT & PREPARATION PLAN
 FOR
THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN
 BLOCK 701, LOT 4, BLOCK 502, LOT 4,
 BLOCK 206, LOT 10 & BLOCK 205, LOT 1
 PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

Bridges/Highways
 Construction Inspection
 Environmental
 Geotechnical/Drain
 Landscape Architecture
 Local/Regional Planning
 Municipal Engineering
 Site Development
 Surveying/Aerial Drones/GIS
 Water/Wastewater

09B
17

WEST DELAWARE AVE.
(48' R.O.W.)

REFERENCE DATUM:
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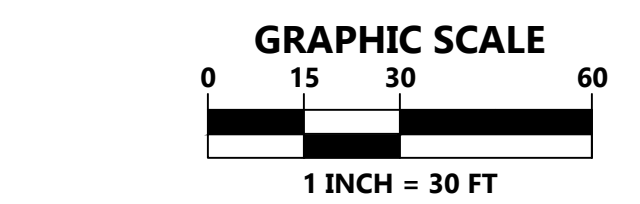
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EXISTING		PROPOSED	
	SANITARY SEWER		SANITARY SEWER MH
	STORM SEWER		FIRE HYDRANT
	FLARED END SECTION		SIGN
	DRAINAGE INLET		UTILITY POLE
	DRAINAGE MANHOLE		VALVE
	HEADWALL		WATER MAIN
	SANITARY SEWER MH		GAS MAIN
	FIRE HYDRANT		ELECTRIC LINE
	SIGN		TELEPHONE LINE
	UTILITY POLE		GRADE ELEVATION
	VALVE		CONTOUR ELEVATION
	WATER MAIN		CONCRETE/PAVER REMOVAL
	GAS MAIN		PAVEMENT REMOVAL
	ELECTRIC LINE		TO BE REMOVED
	TELEPHONE LINE		PAVEMENT MILLING
	GRADE ELEVATION		ABANDON IN PLACE
	CONTOUR ELEVATION		



Δ=04°52'19"
R=5,680.00'
T=241.62'
L=482.58'
CH=482.83'
N 01°00'31" E

PROPOSED ADDITION
4,200 S.F. (FOOTPRINT)

PROPOSED GYMNASIUM ADDITION
TWO STORY
20,016 S.F. (FOOTPRINT)
21,947 S.F. PREVIOUSLY APPROVED
UNDER 2008 MASTER PLAN

BLOCK 502
LOT 4
1,433,311 S.F.
32.904 AC.

MATCH LINE B

PLAN NOTATION
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SERIAL NO.
811
IT'S THE LAW!
Dig Safely.
1-800-272-1000

TO LOCATE UNDERGROUND UTILITIES BEFORE DIGGING TO ONE, TWO, OR THREE (3) WORKING DAYS NOTICE
Call before you dig

DATE:	MAY 20, 2022
SCALE:	1"=30'
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB
DATE:	5/20/22

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005

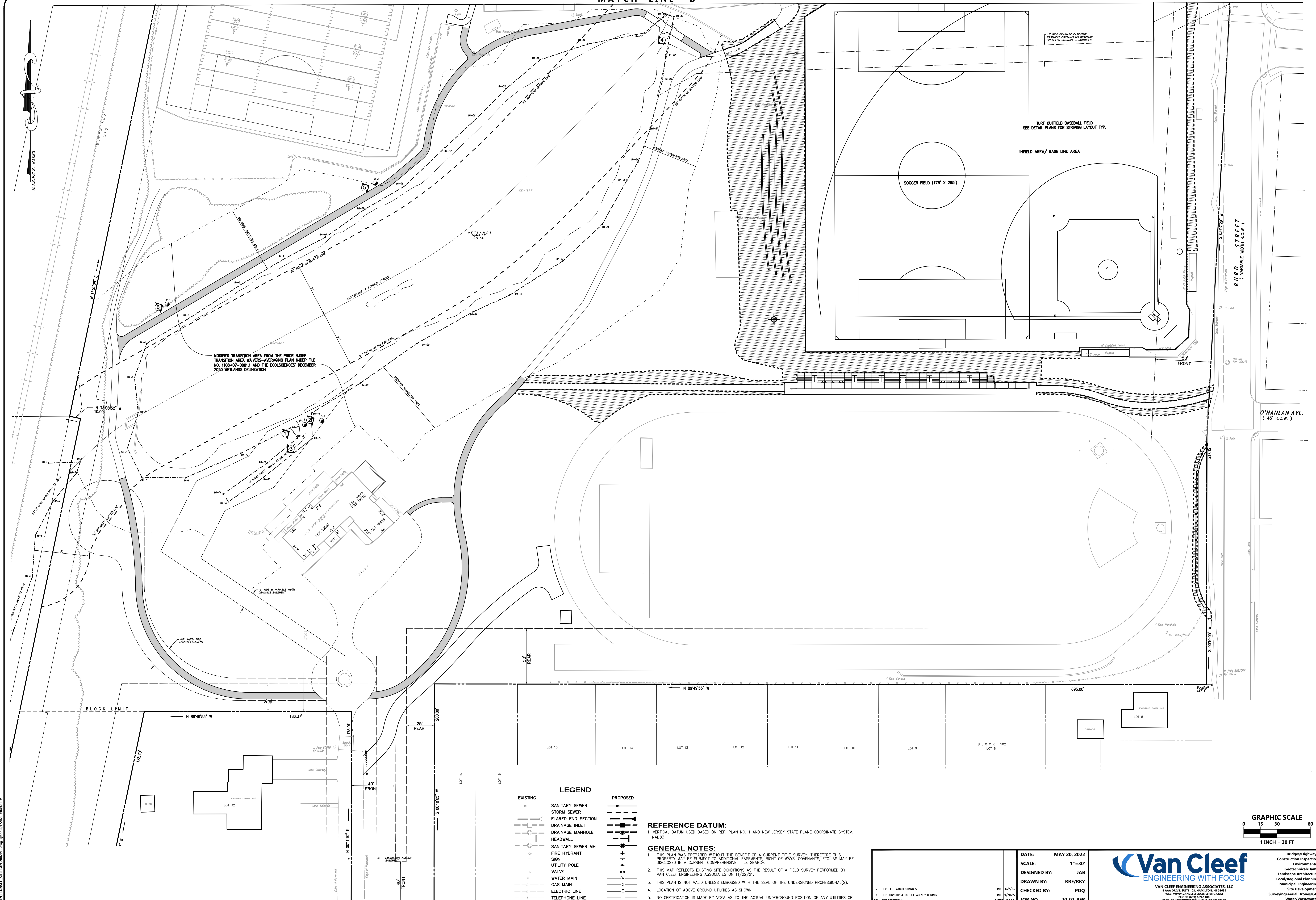
Van Cleaf
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
4500 DRIVE, SUITE 300, HANOVER, NJ 07930
WWW.VANCLEEFENGINEERING.COM
PHONE: (908) 889-1100
CERT. OF AUTHORIZATION NO. 26A02132100

SOIL MANAGEMENT & PREPARATION PLAN
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

09C
17

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Drains
Landscape Architecture
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Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater



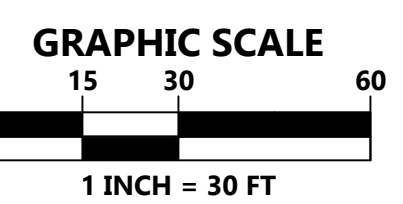
MODIFIED TRANSITION AREA FROM THE PRIOR NJDEP TRANSITION AREA WATERSHED-WEAVING PLAN NJDEP FILE NO. 1108-07-0001.1 AND THE ECOLOGISTS' DECEMBER 2020 WETLANDS DELINEATION

TURF OUTFIELD BASEBALL FIELD SEE DETAIL PLANS FOR STRIPING LAYOUT TYP.

SOCCER FIELD (175' X 295')

INFIELD AREA/ BASE LINE AREA

O'HANLAN AVE. (45' R.O.W.)



LEGEND

EXISTING	PROPOSED

REFERENCE DATUM:
1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83

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REV	DESCRIPTION	DATE	BY
2	REV. PER LAYOUT CHANGES	JAB 4/2/22	JAB
1	PER TOWNSHIP & OUTSIDE AGENCY COMMENTS	JAB 1/23/22	JAB
0	ISSUED FOR PERMIT	JAB 1/23/22	JAB

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 24GE052258005

DATE: 5/20/22

Van Cleaf
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
1000 SOUTH AVENUE, SUITE 100, HANDELTON, NJ 08534
PHONE: 609.686.1100
CERT. OF AUTHORIZATION NO. 24E021123200

SOIL MANAGEMENT & PREPARATION PLAN
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
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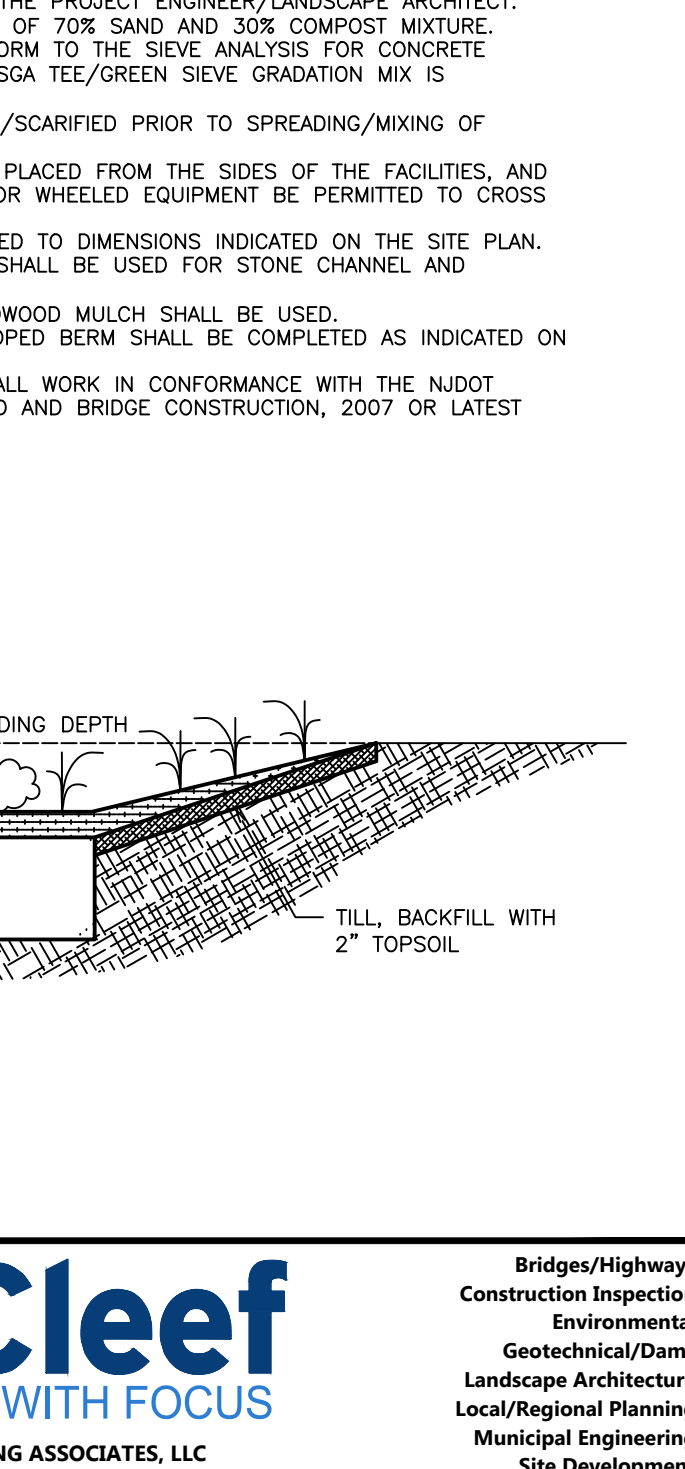
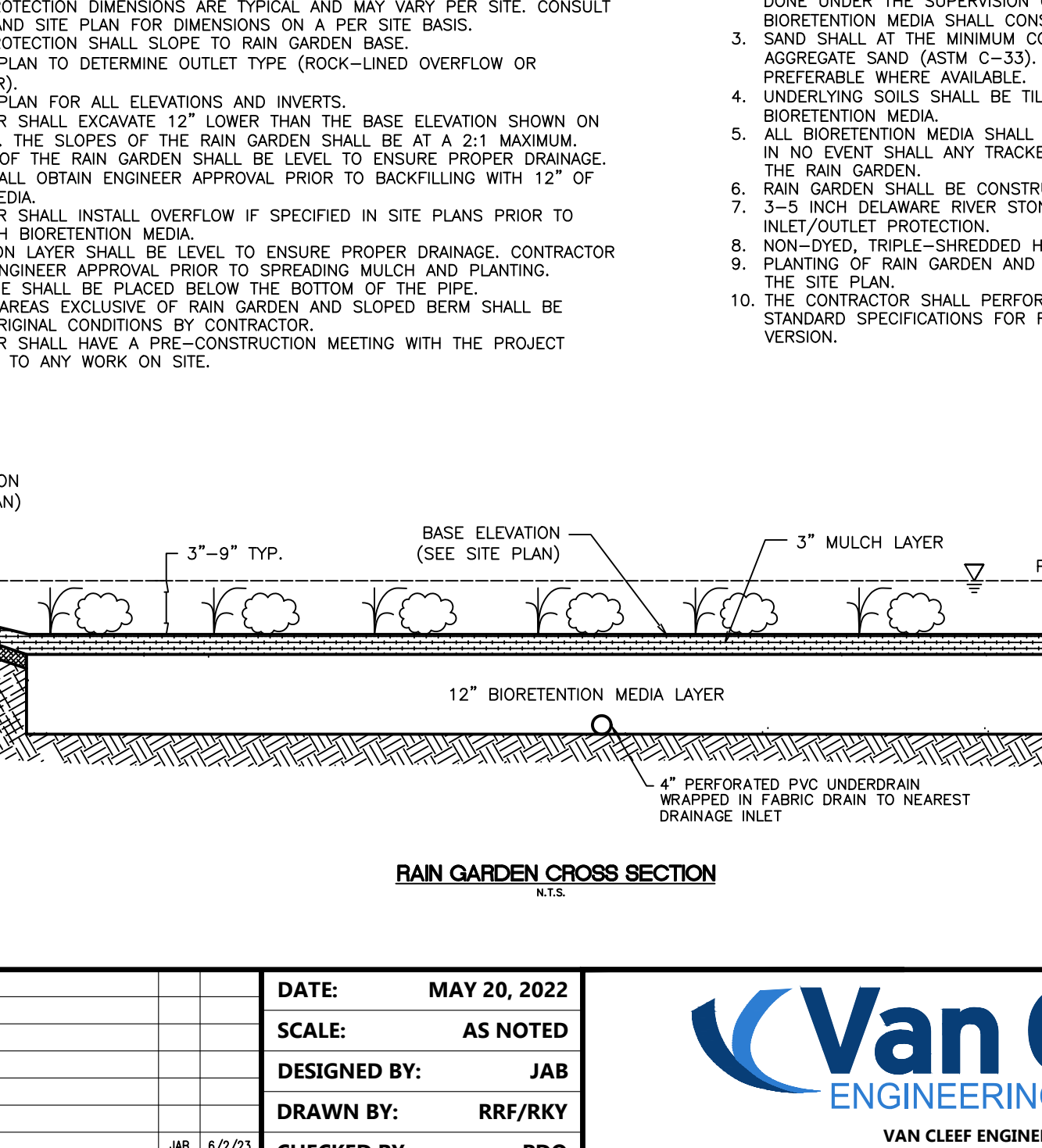
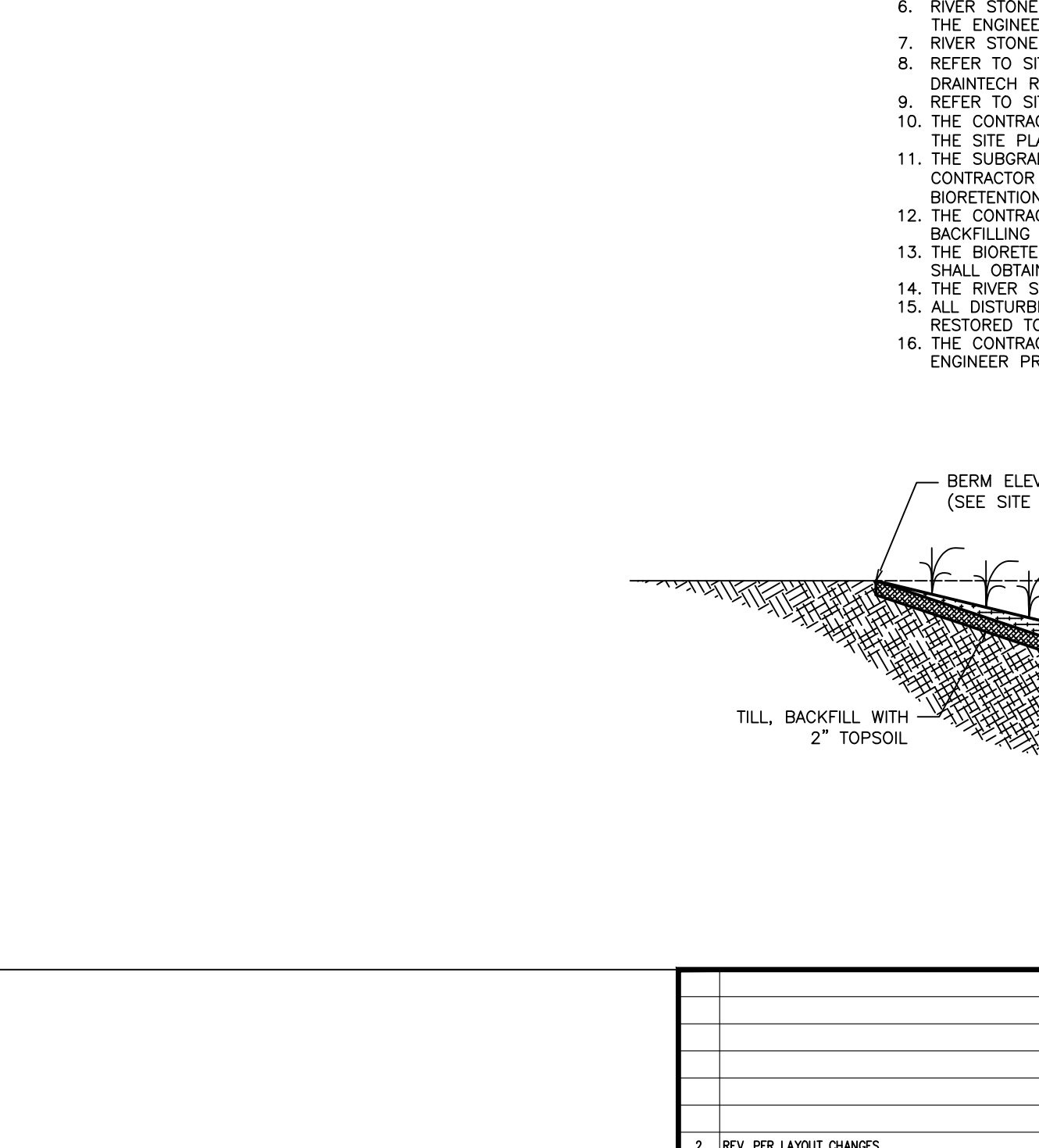
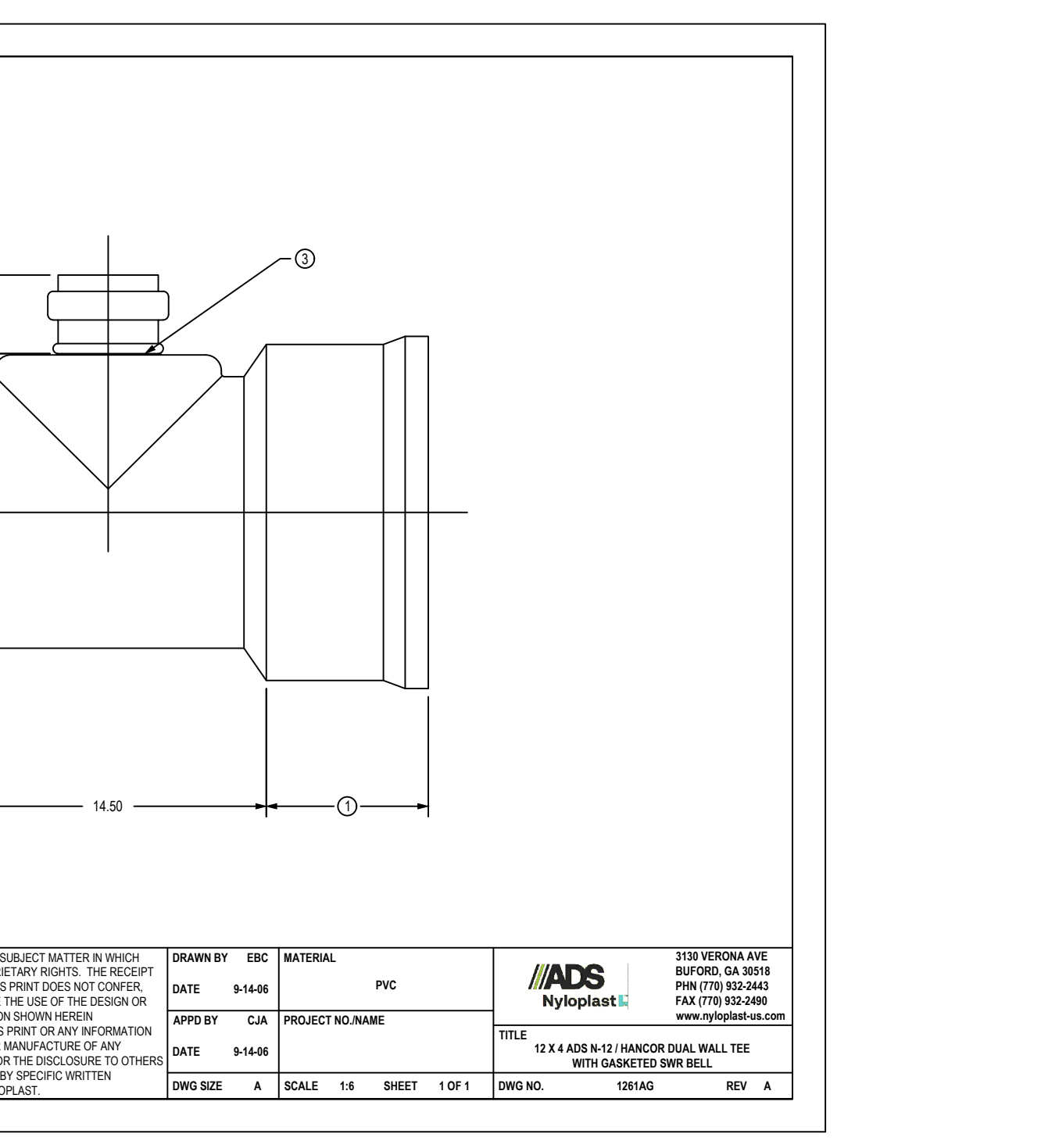
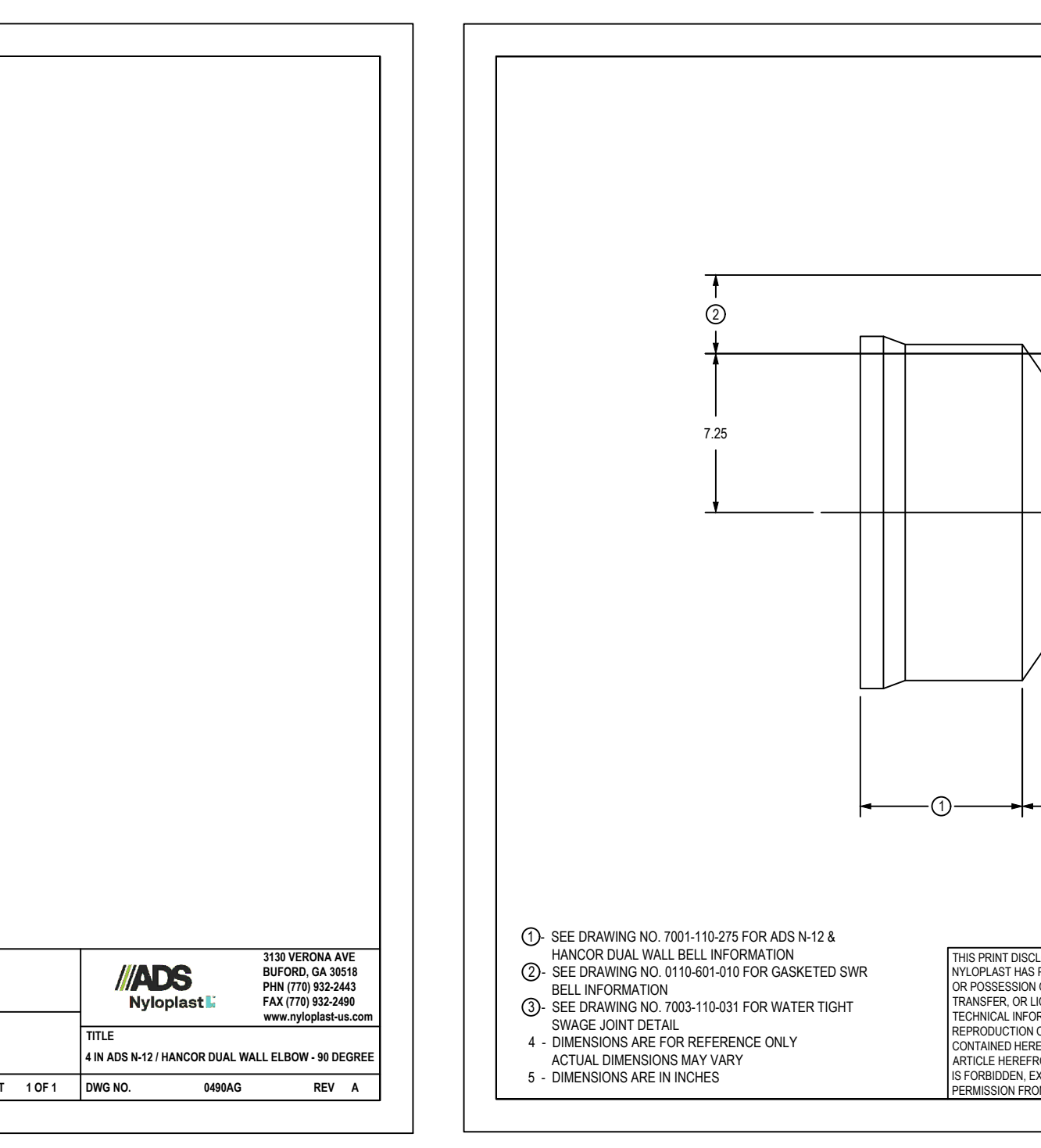
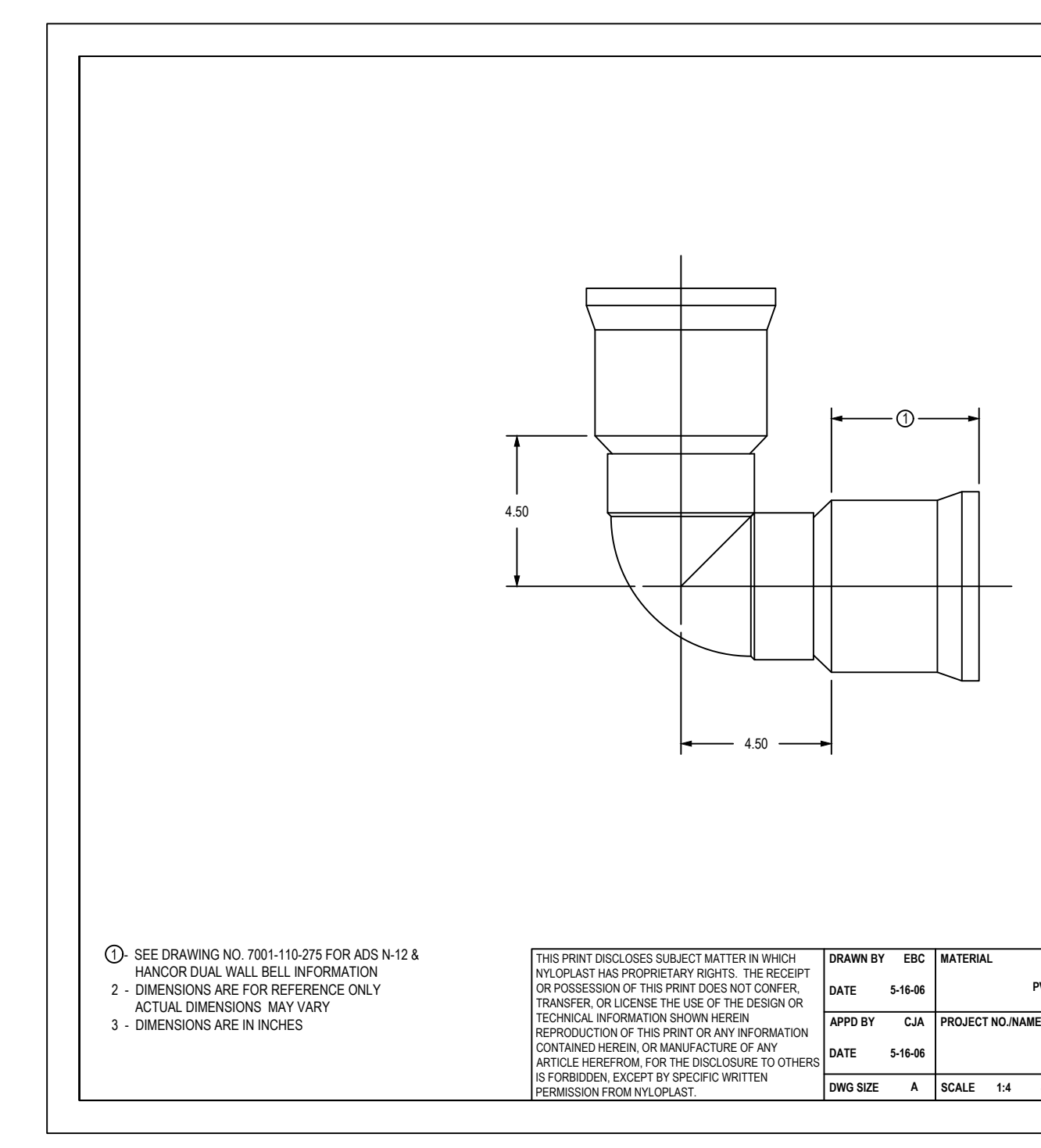
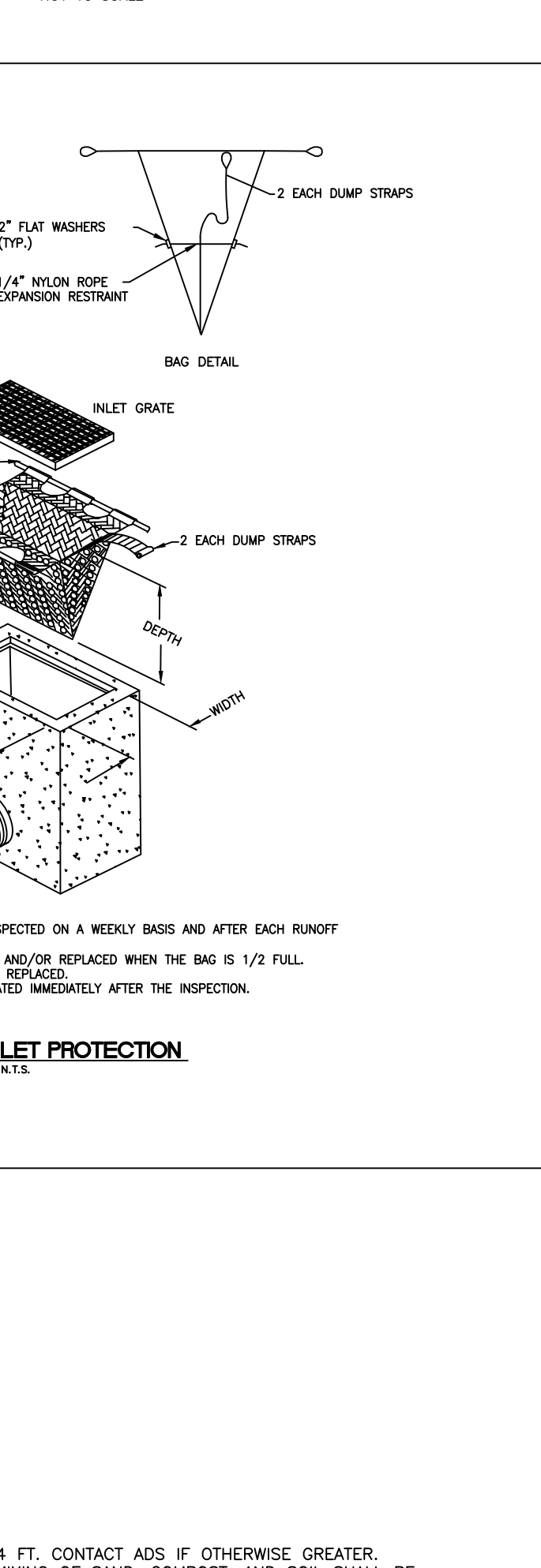
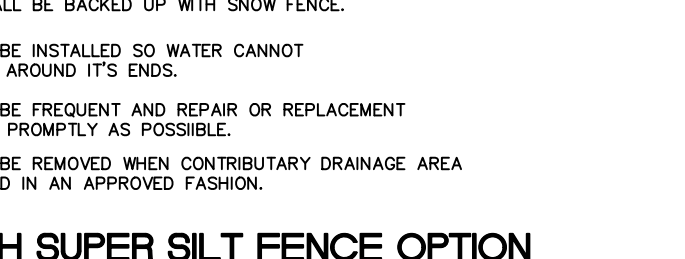
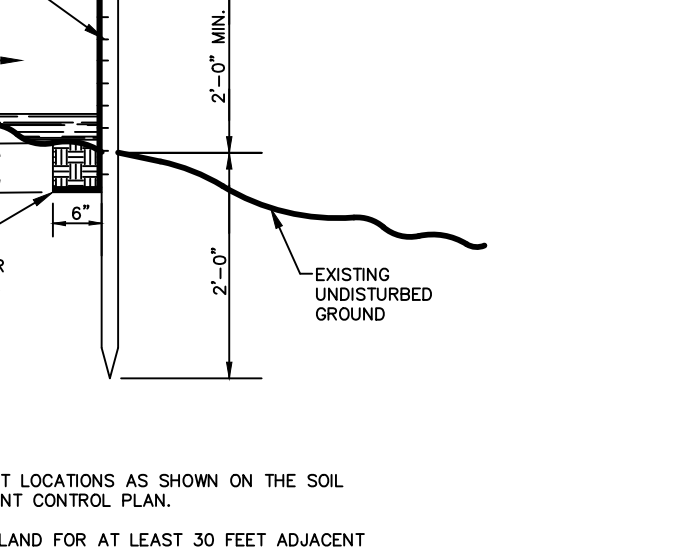
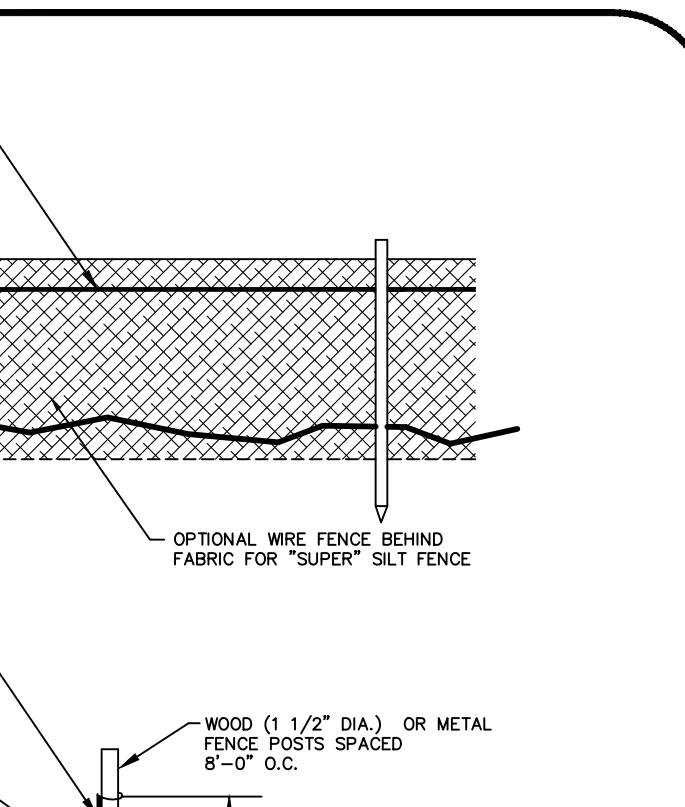
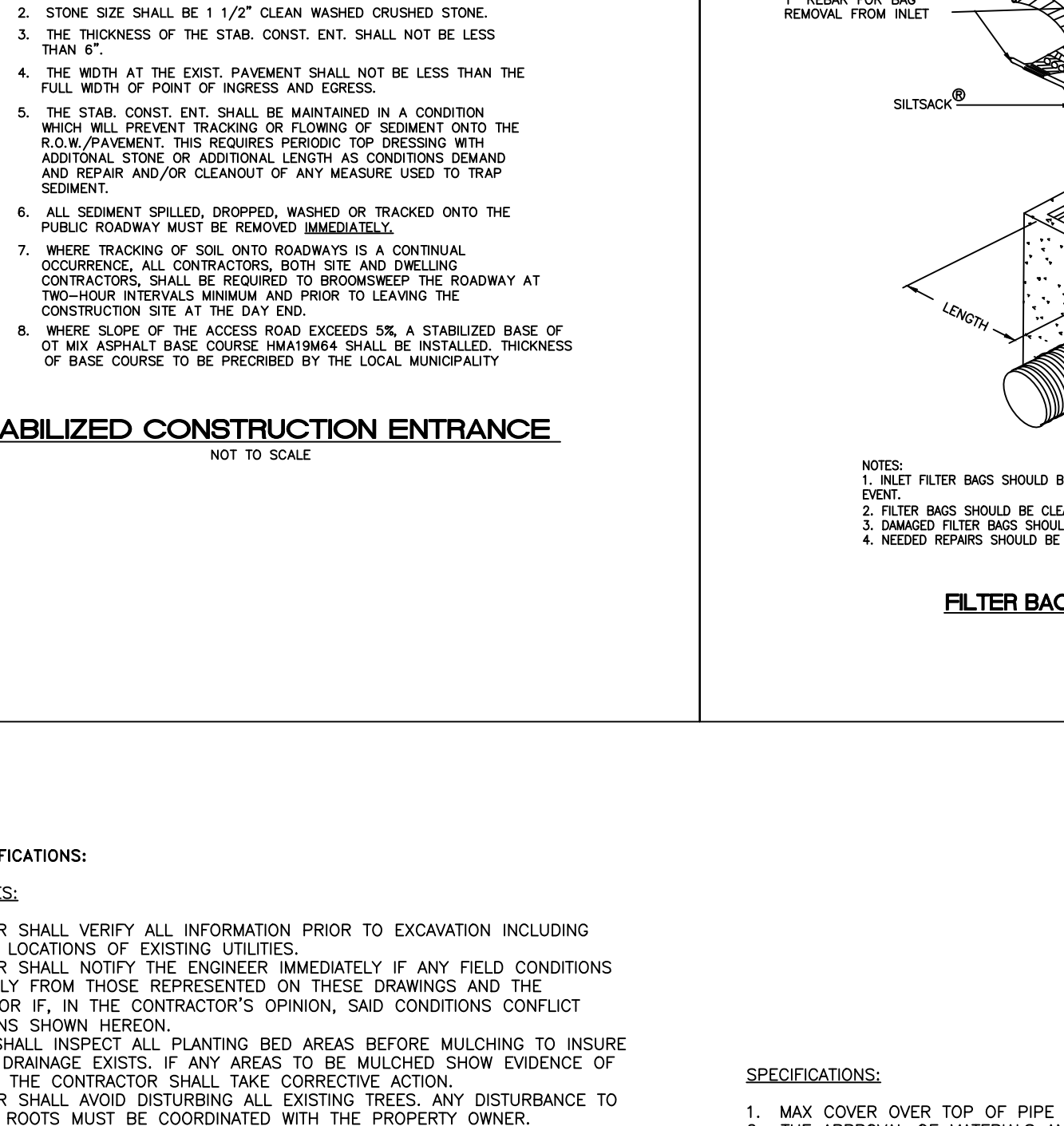
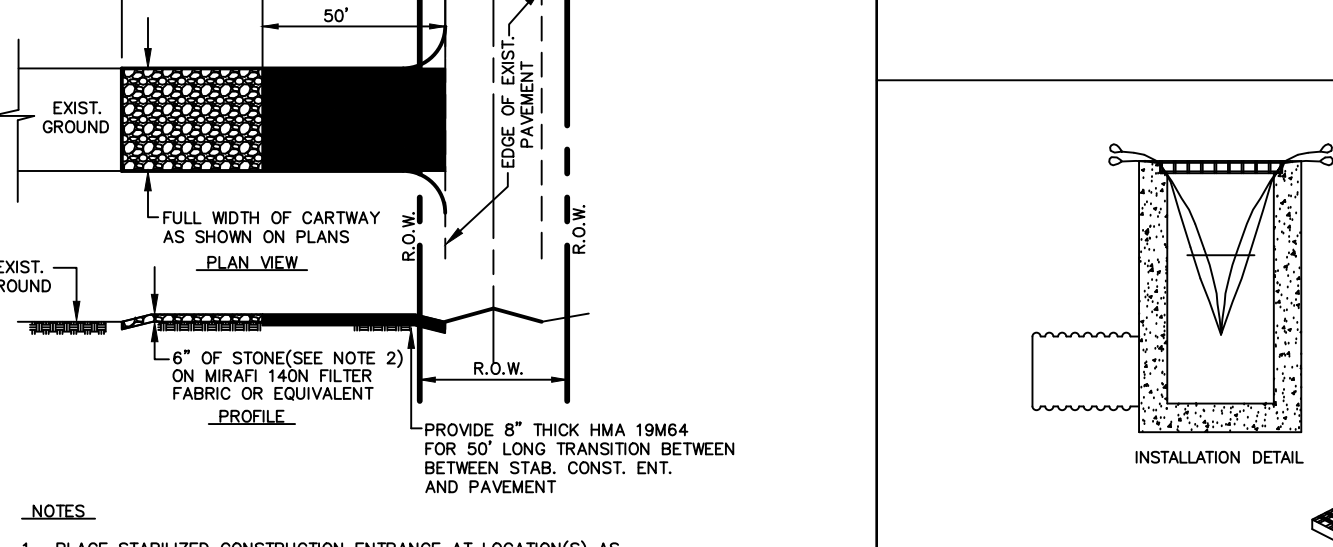
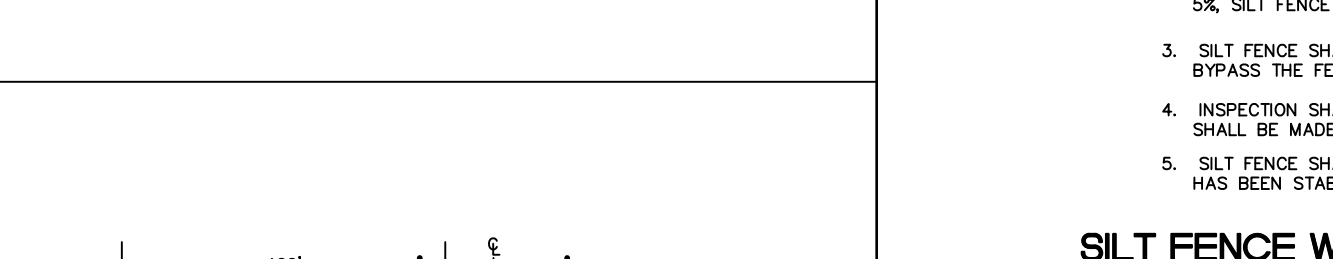
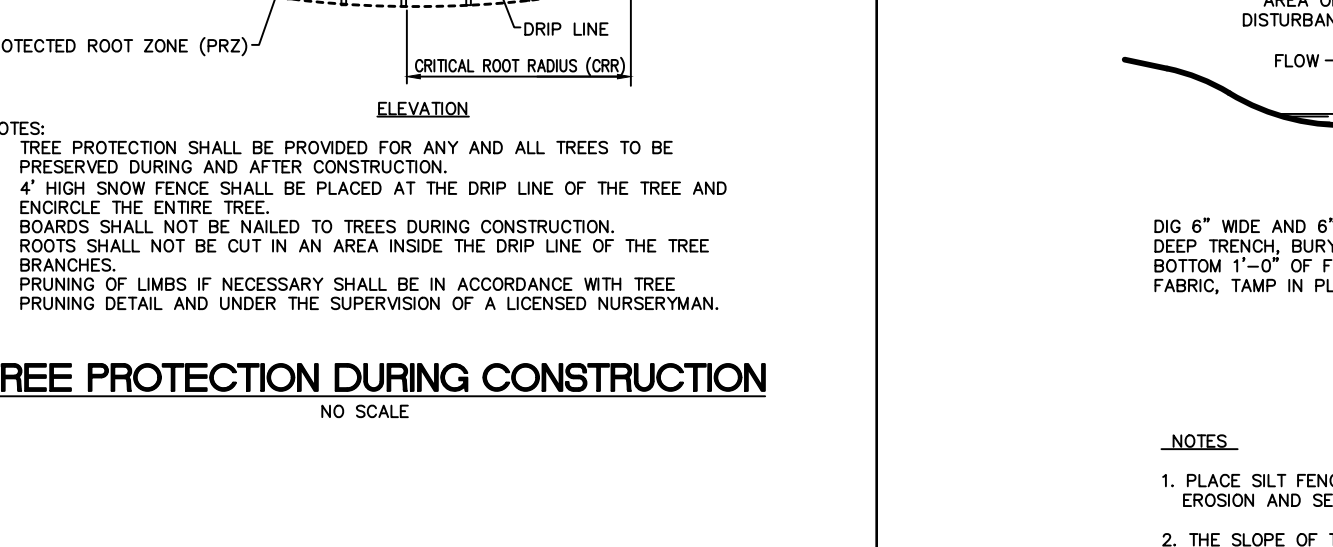
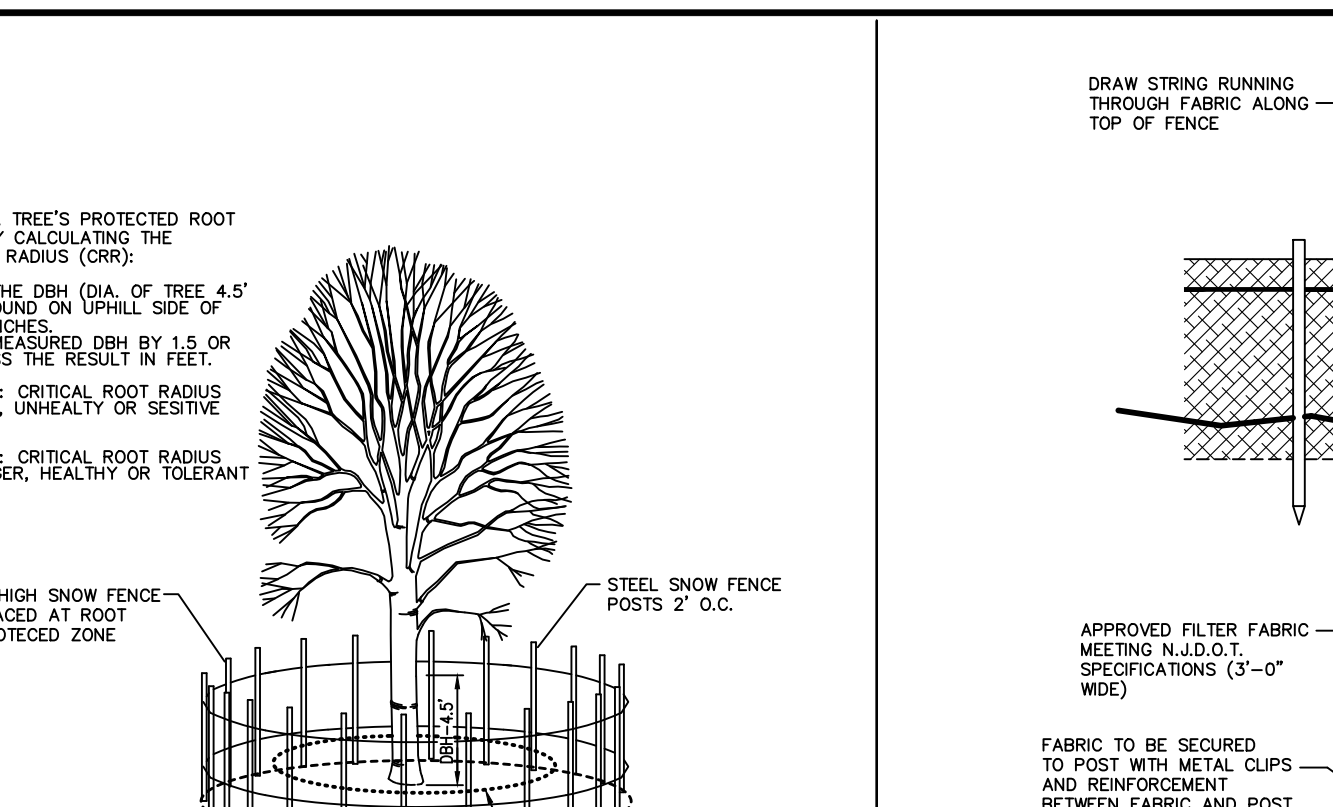
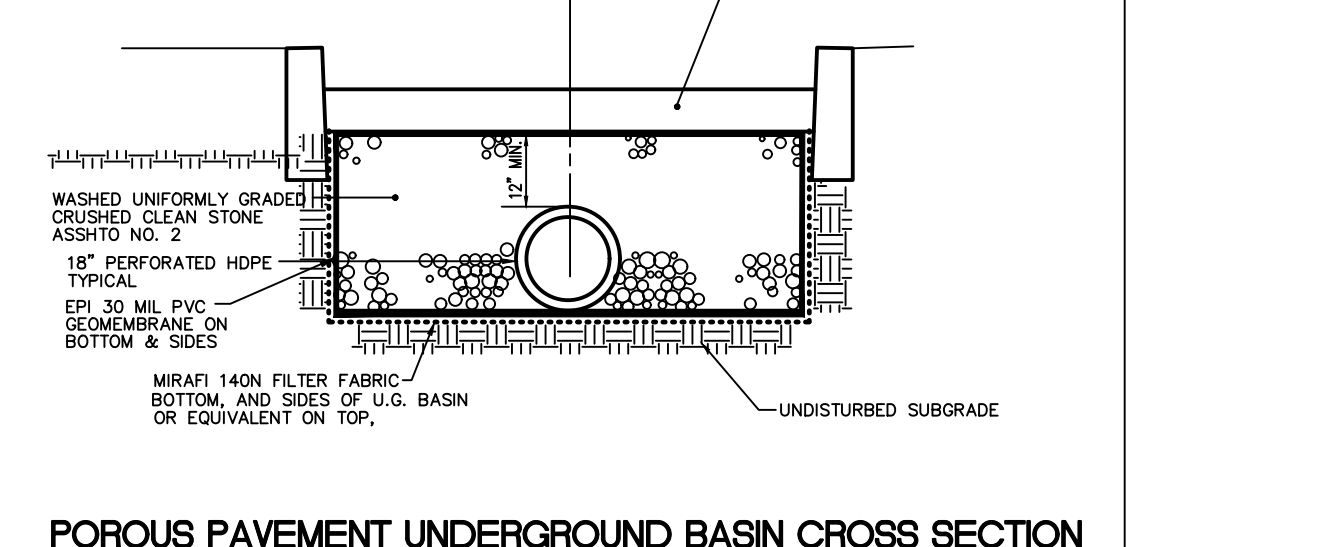
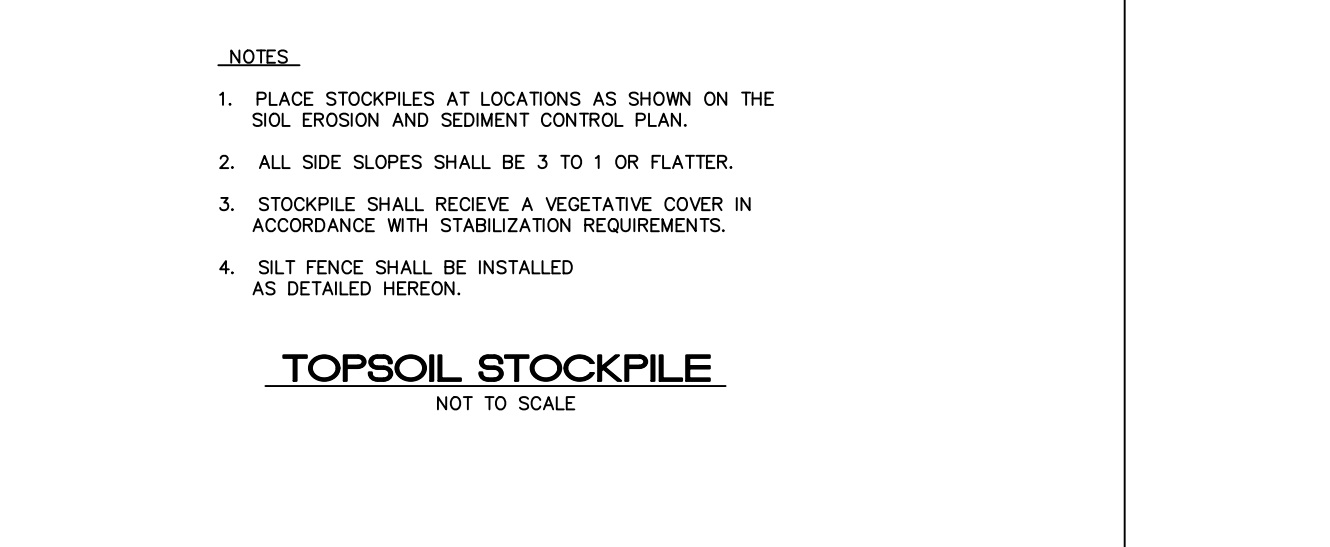
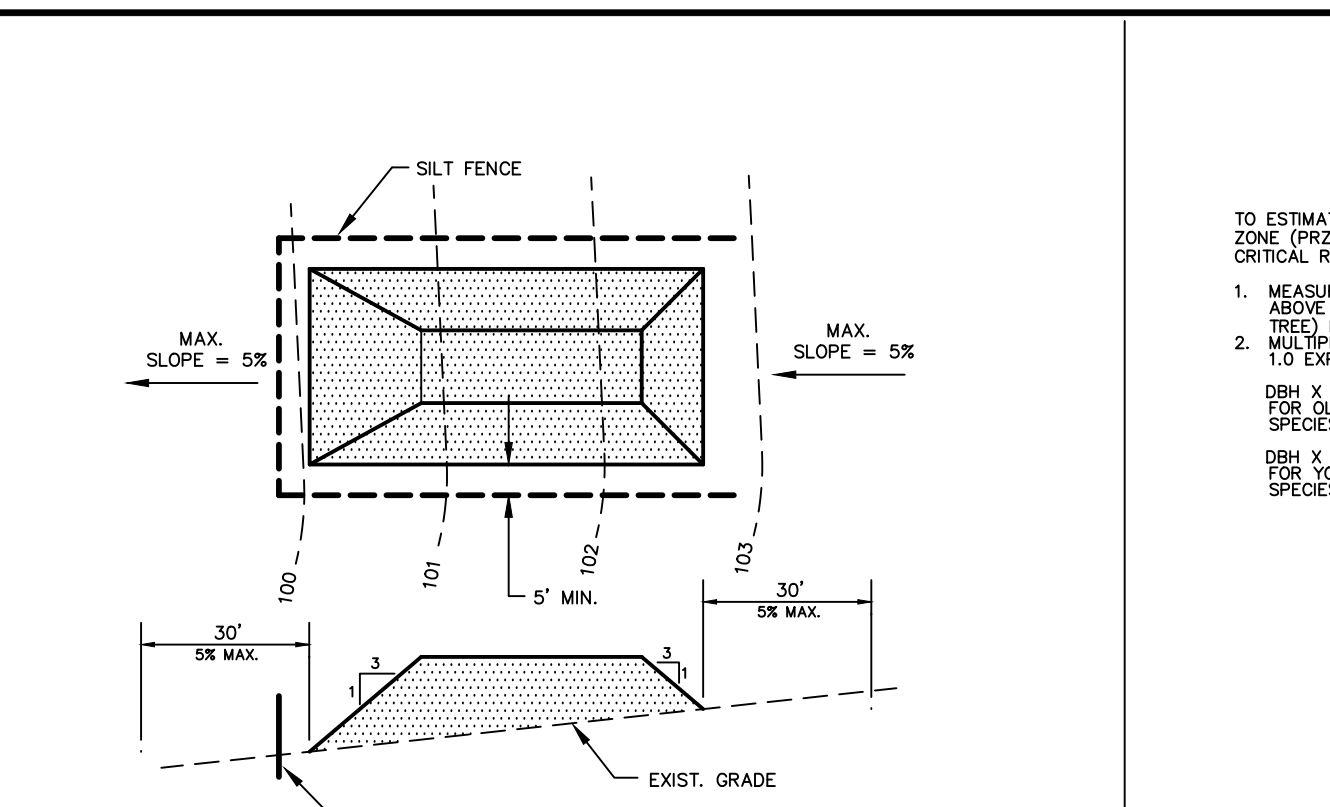
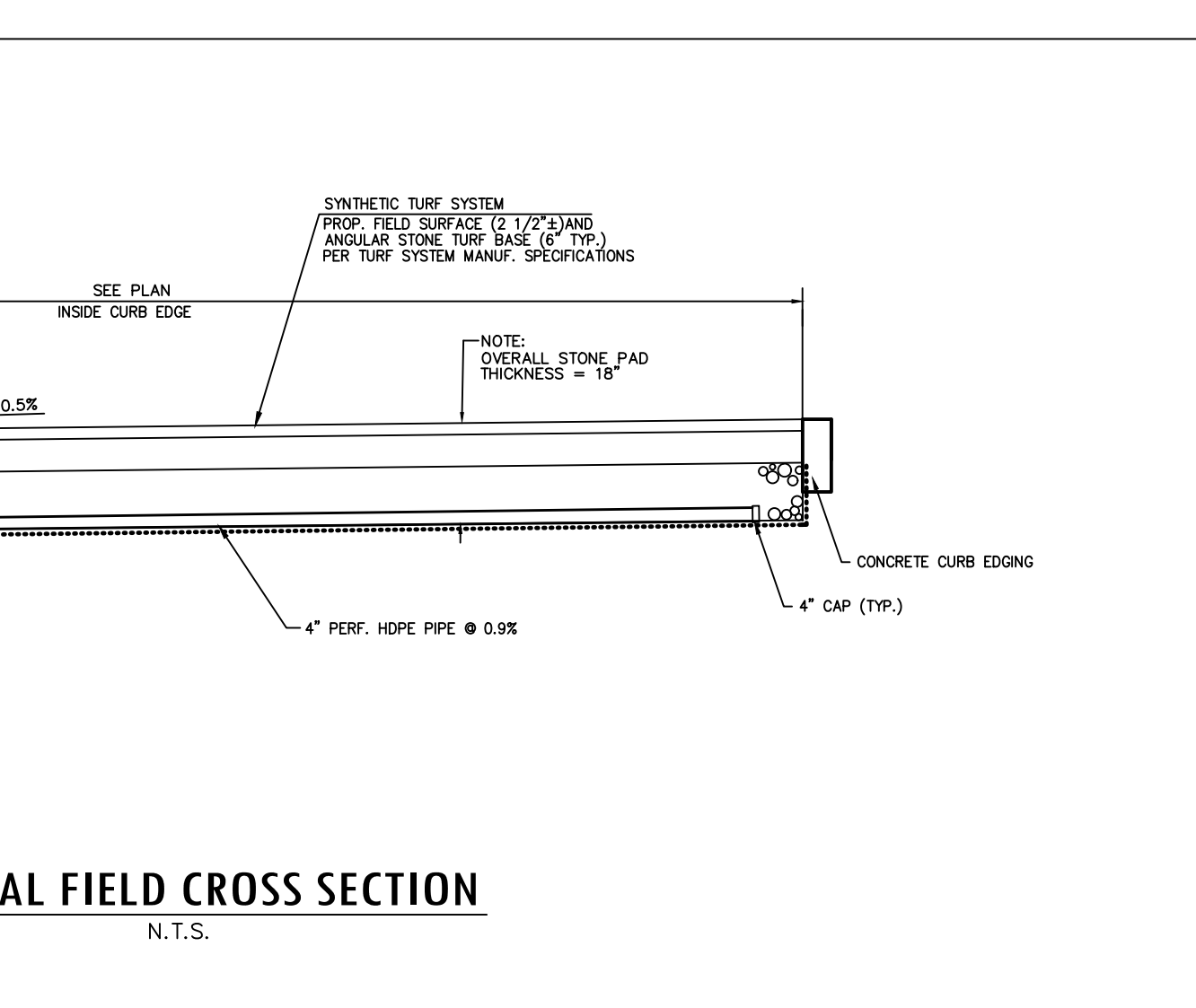
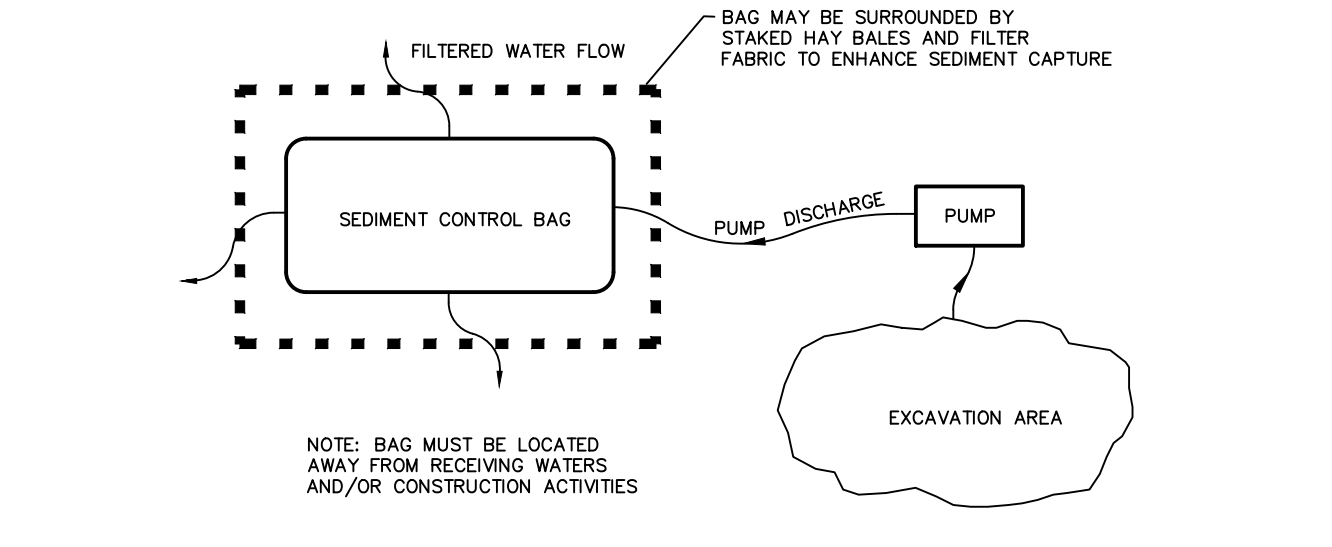
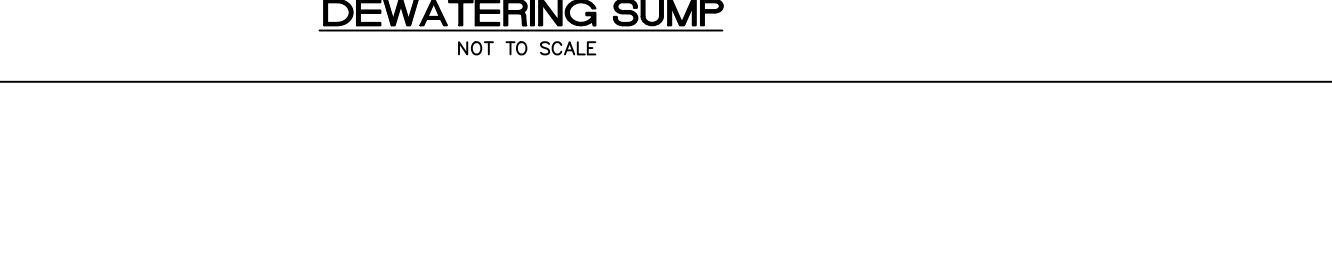
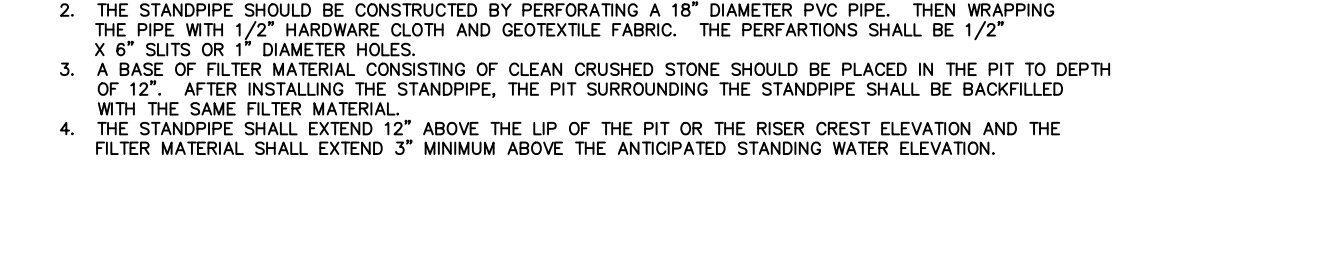
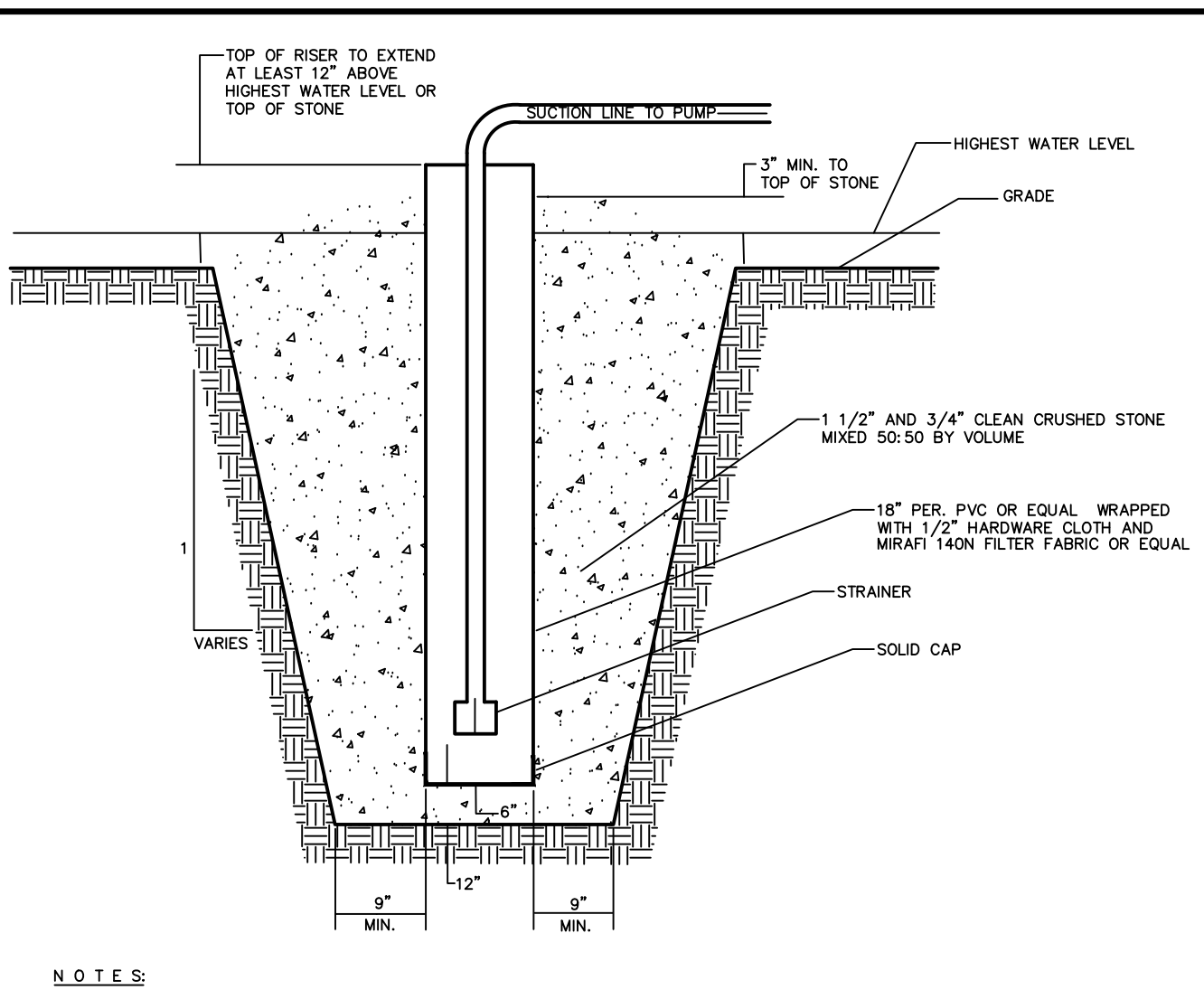
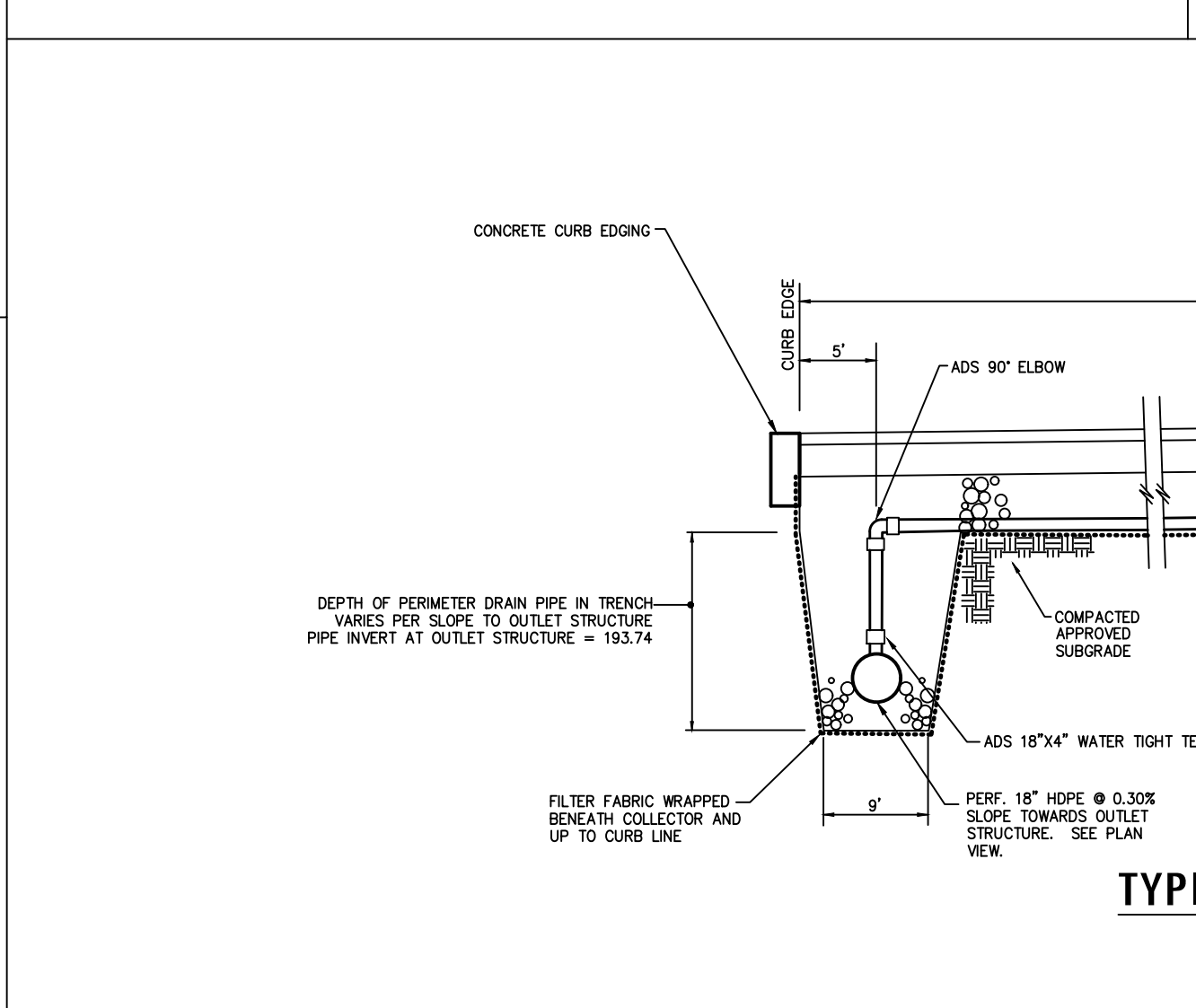
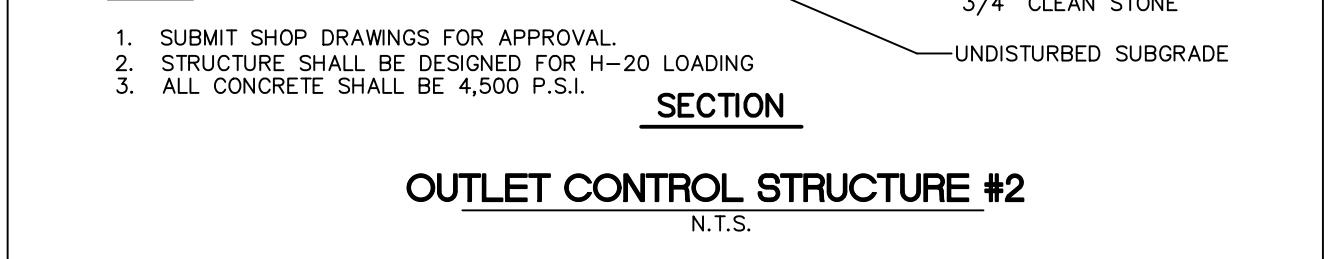
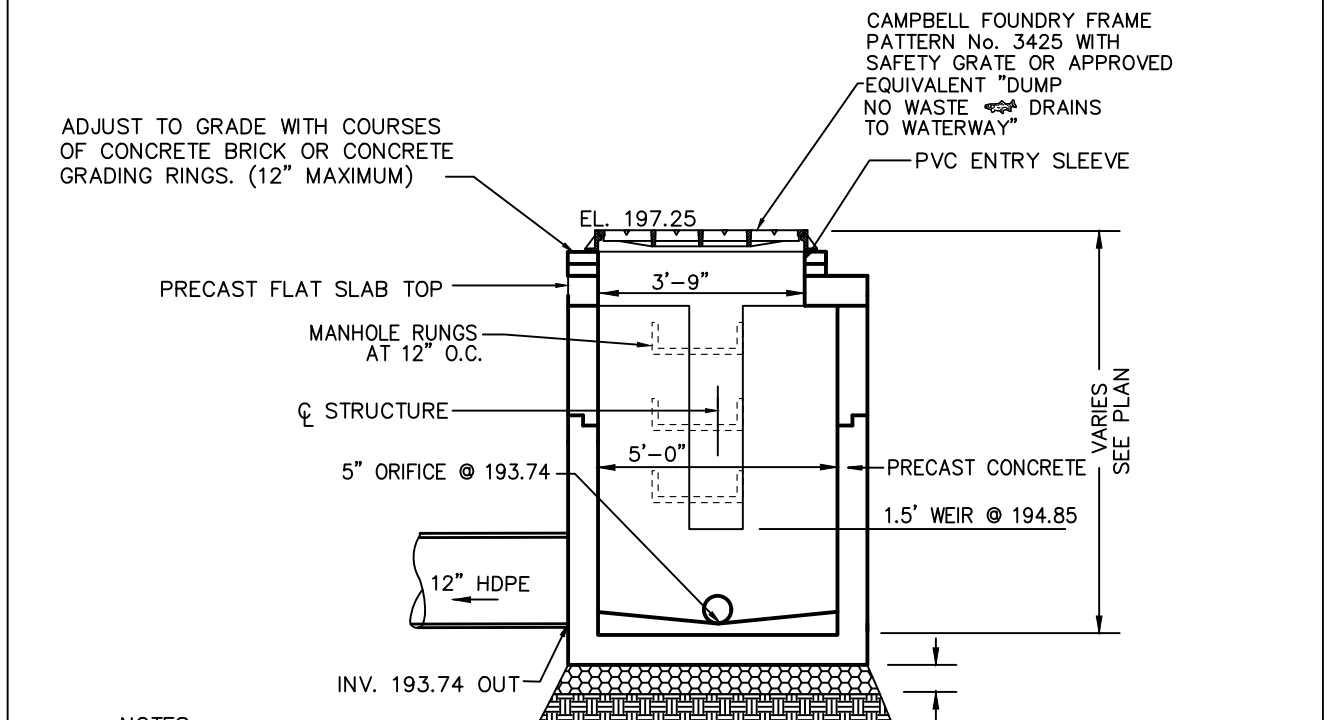
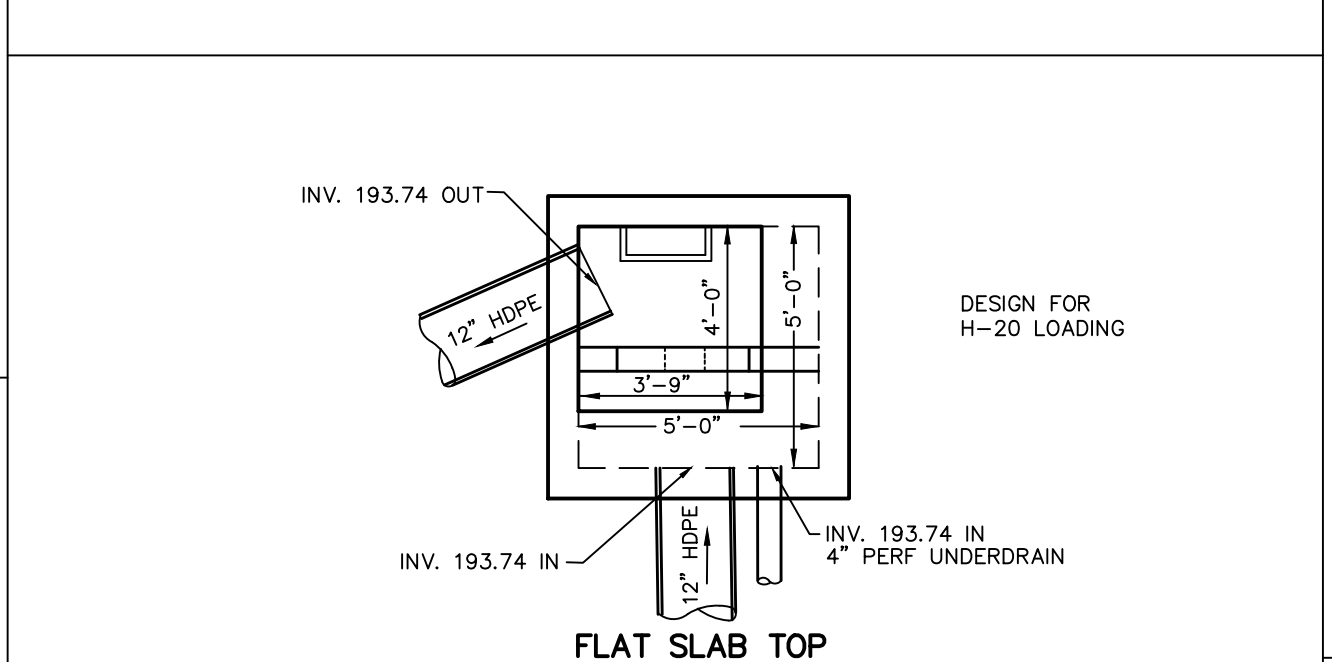
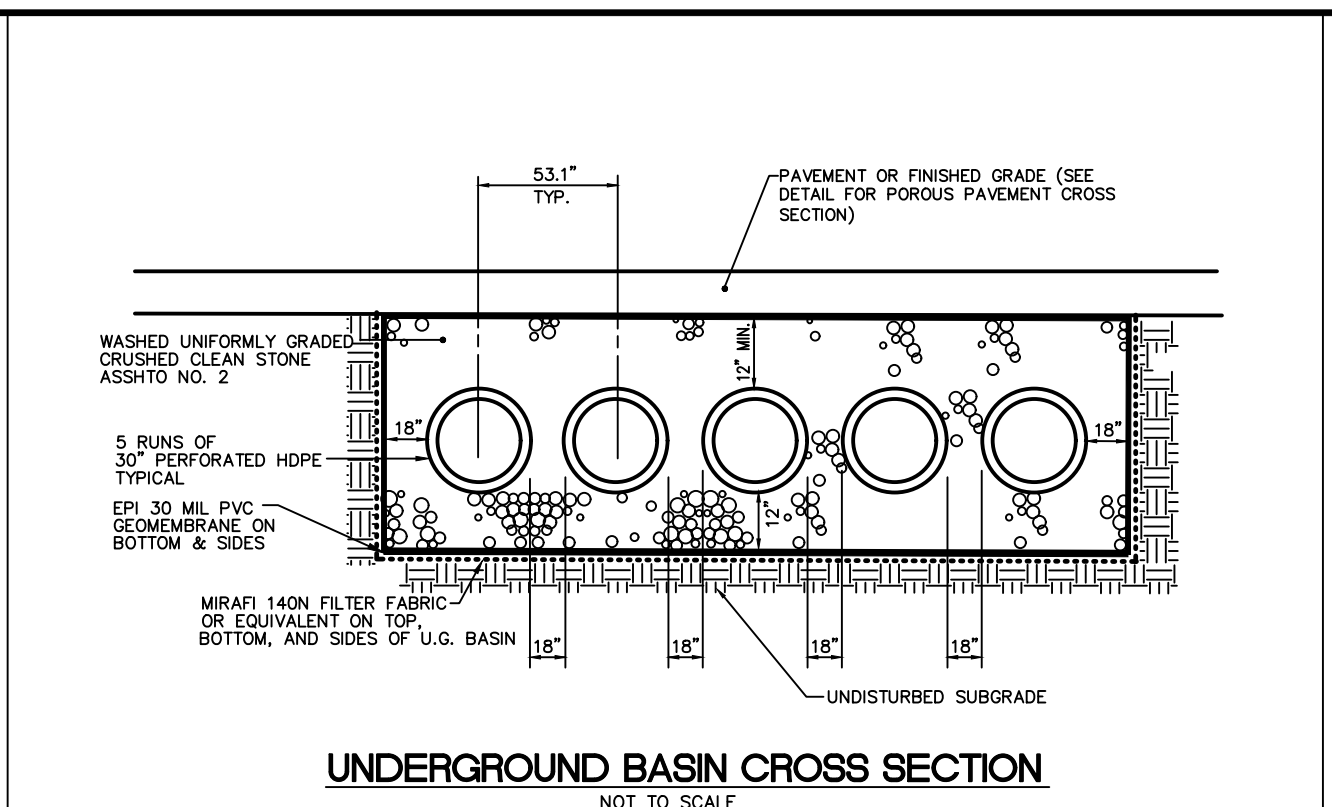
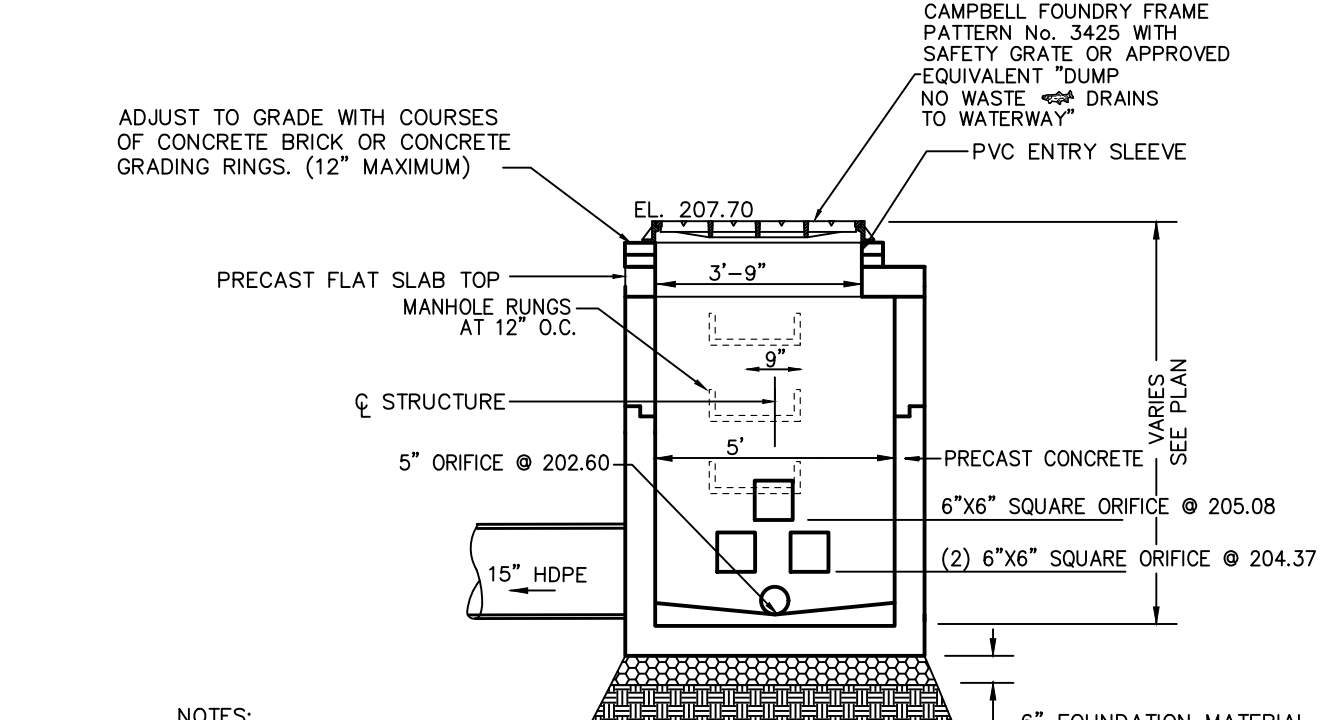
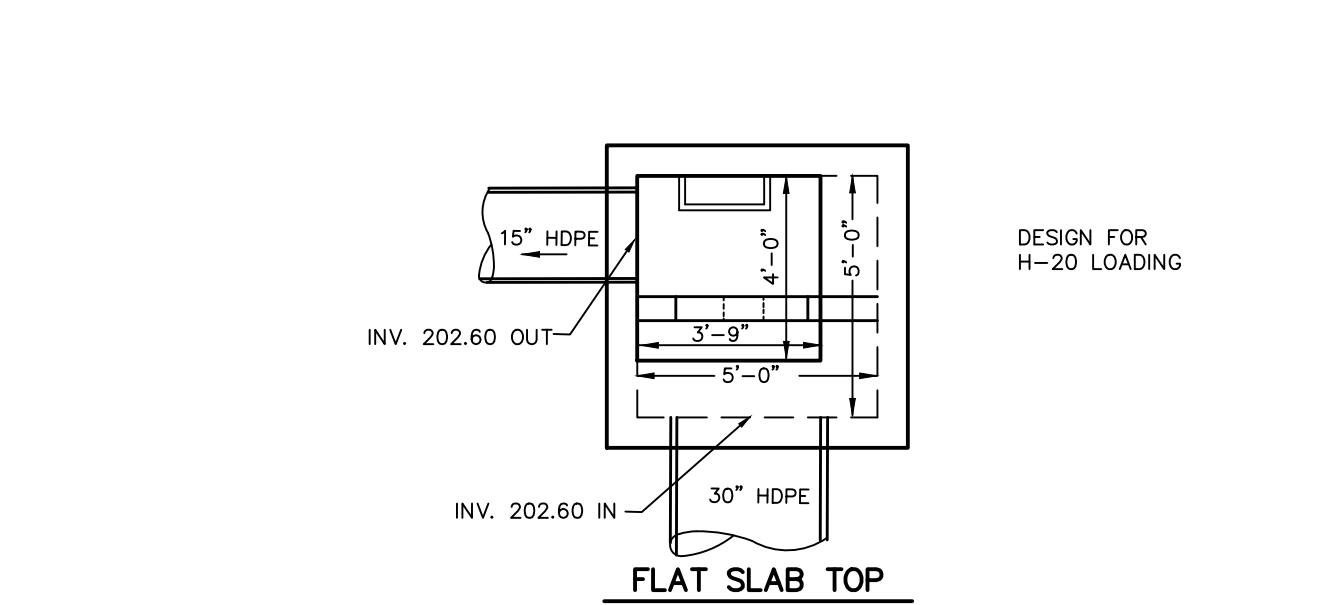
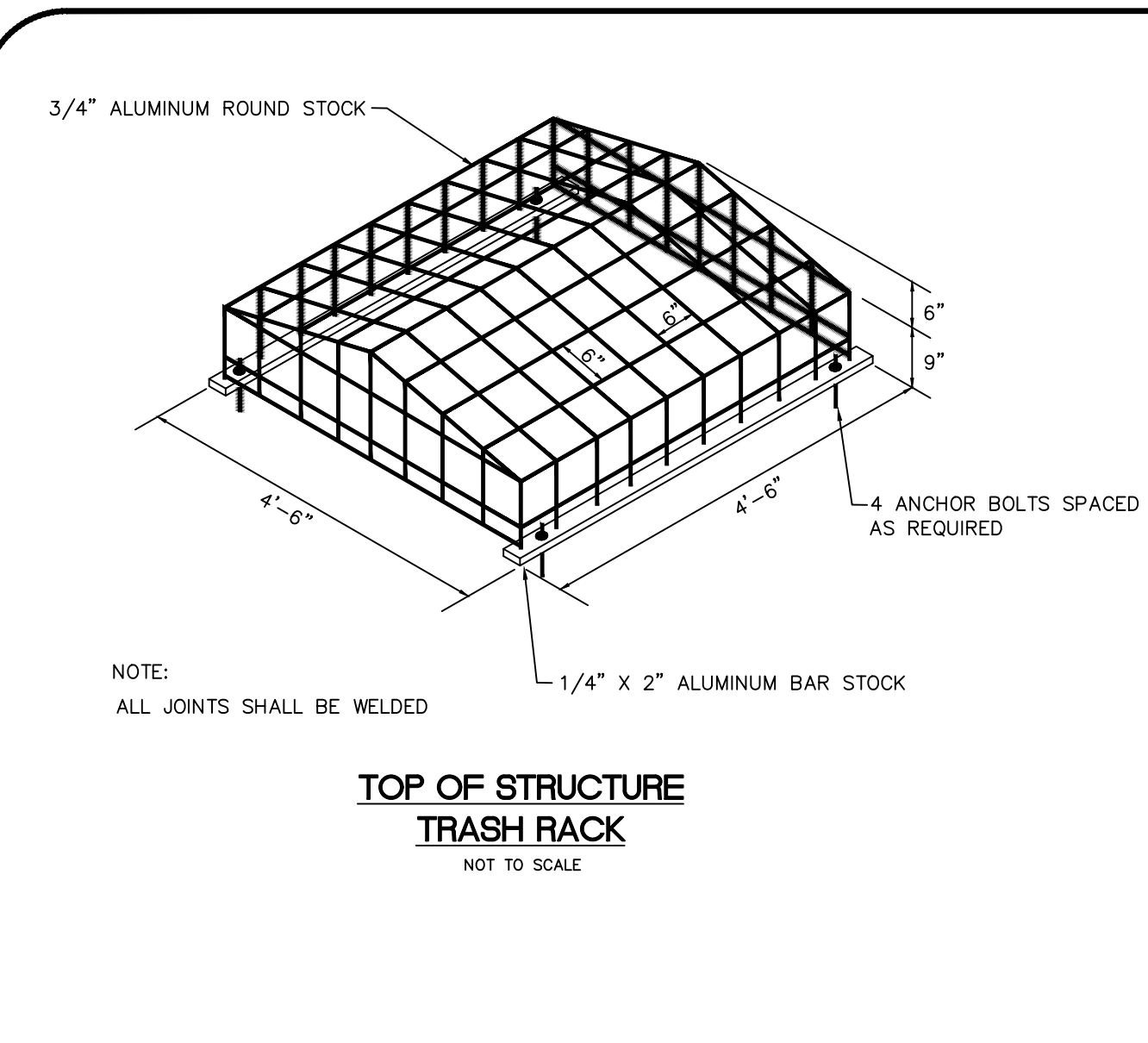
09D 17

PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSION OR COLORED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, SUPPLEMENT OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE USER'S DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

811
Dig Safely.
IT'S THE LAW!
Call before you dig.
1-800-375-1000

PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSION OR COLORED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, SUPPLEMENT OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE USER'S DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY



ONLY THOSE PLANS WHICH CONTAIN A DIGITAL SIGNATURE OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED APPROVED. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE PROJECT DESIGNATED HEREON. ANY REVISIONS TO THIS PLAN WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES, INC. IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

TO LOCATE UNDERGROUND UTILITIES
CALL 811
IT'S THE SAFE WAY TO DIG

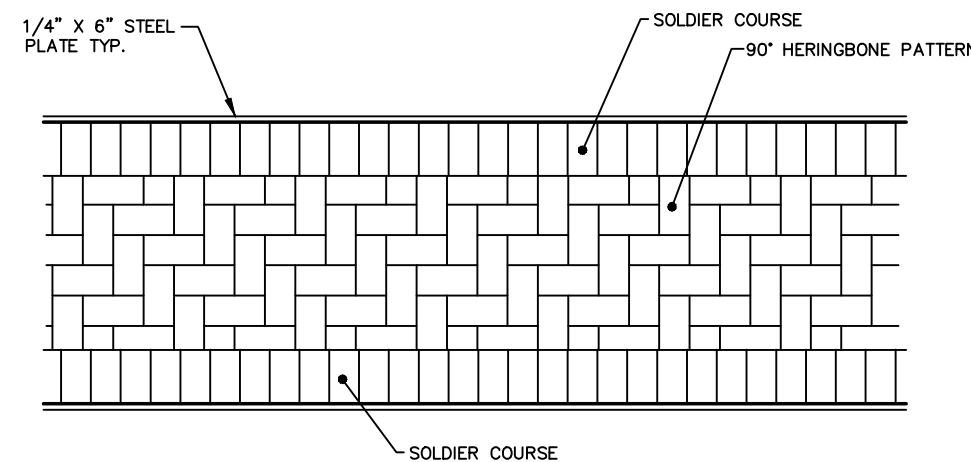
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PROJECT NO: 20-02-PEB
JOB NO: 20-02-PEB

DATE: 5/20/22
PROJECT NO: 20-02-PEB
JOB NO: 20-02-PEB

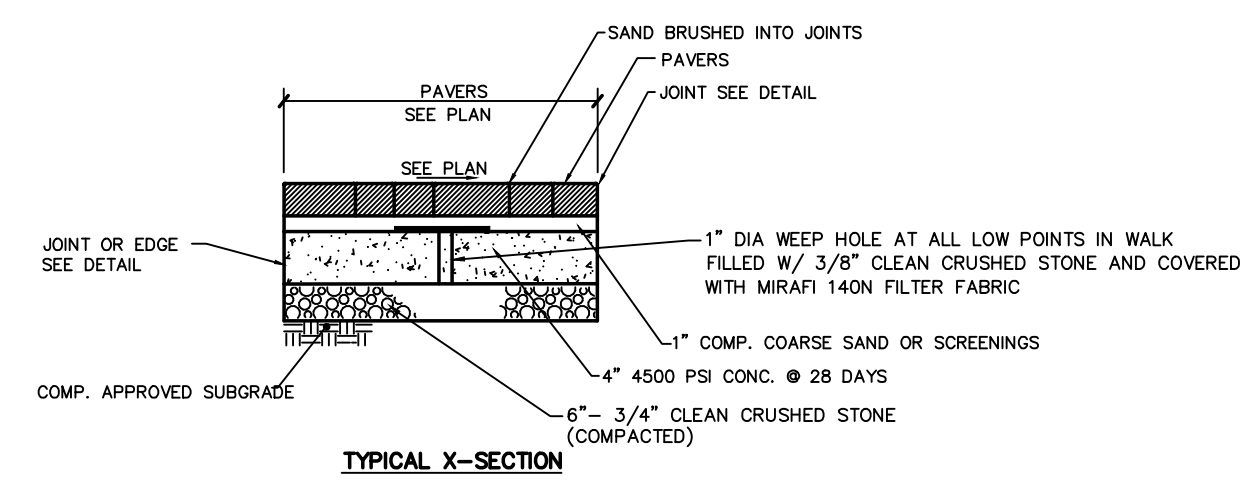
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PROJECT NO: 20-02-PEB
JOB NO: 20-02-PEB

DATE: 5/20/22
PROJECT NO: 20-02-PEB
JOB NO: 20-02-PEB

DATE: 5/20/22
PROJECT NO: 20-02-PEB
JOB NO: 20-02-PEB



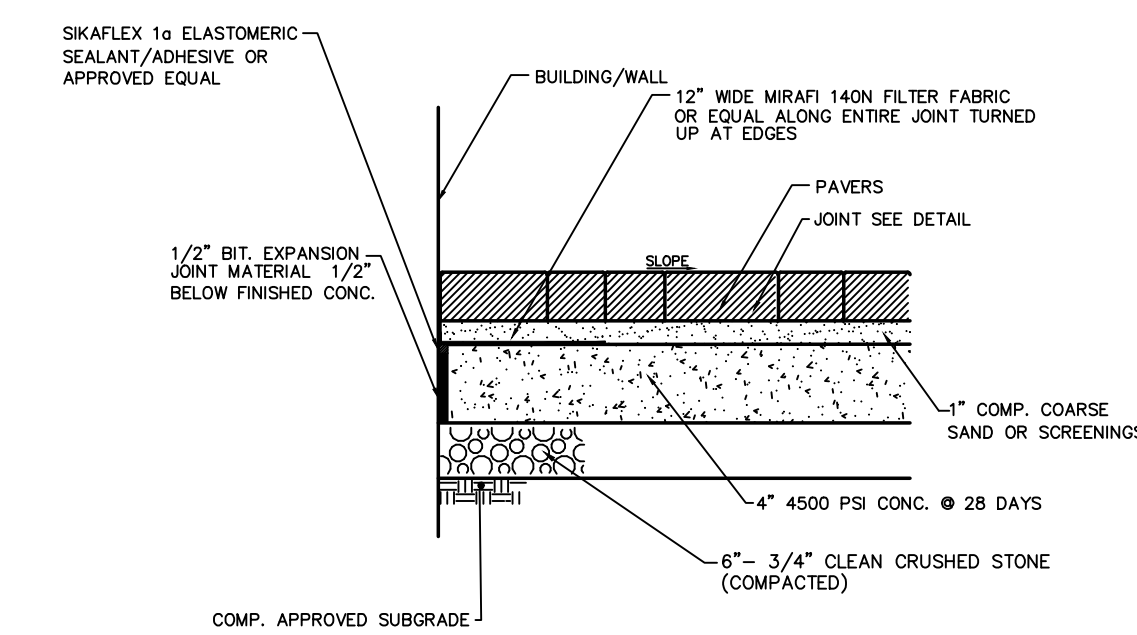
PAVER SIDEWALK PLAN VIEW
N.T.S.



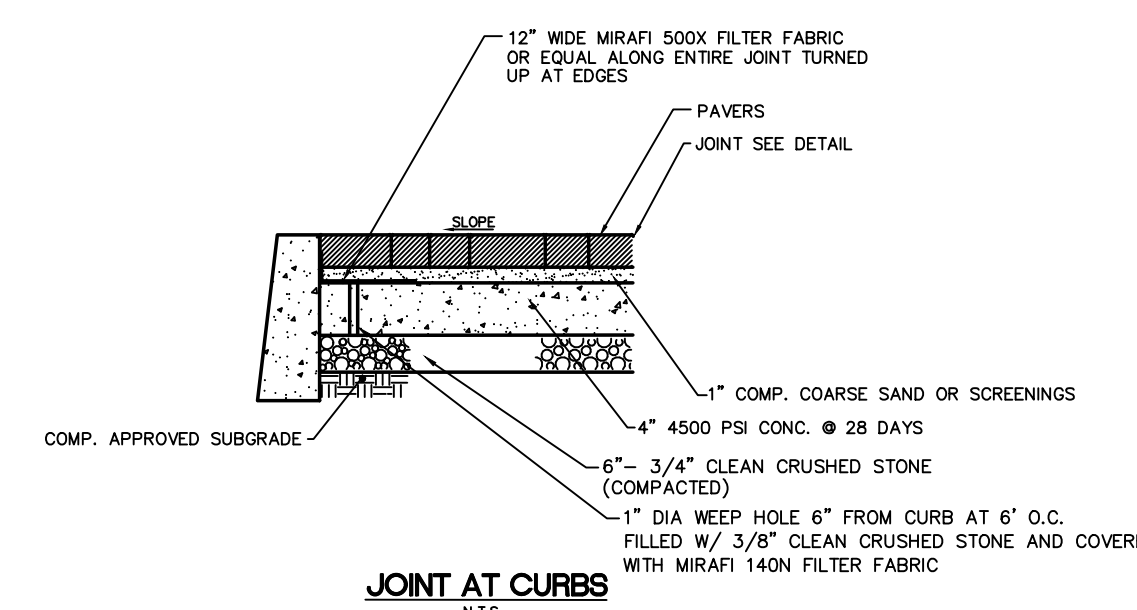
TYPICAL X-SECTION
N.T.S.

- 1.) AT DRIVEWAY CROSSINGS, CONCRETE SHALL BE 6" THK AND SHALL CONTAIN NO. 10 # 4" WIRE MESH 2' UP FROM THE BOTTOM.
- 2.) EXPANSION JOINTS SHALL BE PROVIDED AT 20' (MAX) INTERVALS. JOINTS SHALL BE FILLED WITH 1/2" BIT. EXPANSION JOINT FILLER AND COVERED WITH 12" WIDE MARI 140N FILTER FABRIC OR EQUAL.
- 3.) ALL SIDEWALK THAT IS BROKEN, CRACKED OR OUT OF ALIGNMENT SHALL BE REPLACED PRIOR TO ACCEPTANCE.
- 4.) PAVER PATTERNS TO MATCH EXISTING.
- 5.) SEE VARIOUS EDGE AND JOINT DETAILS.
- 6.) PAVERS TO MATCH EXISTING AS SPECIFIED BY OWNER.

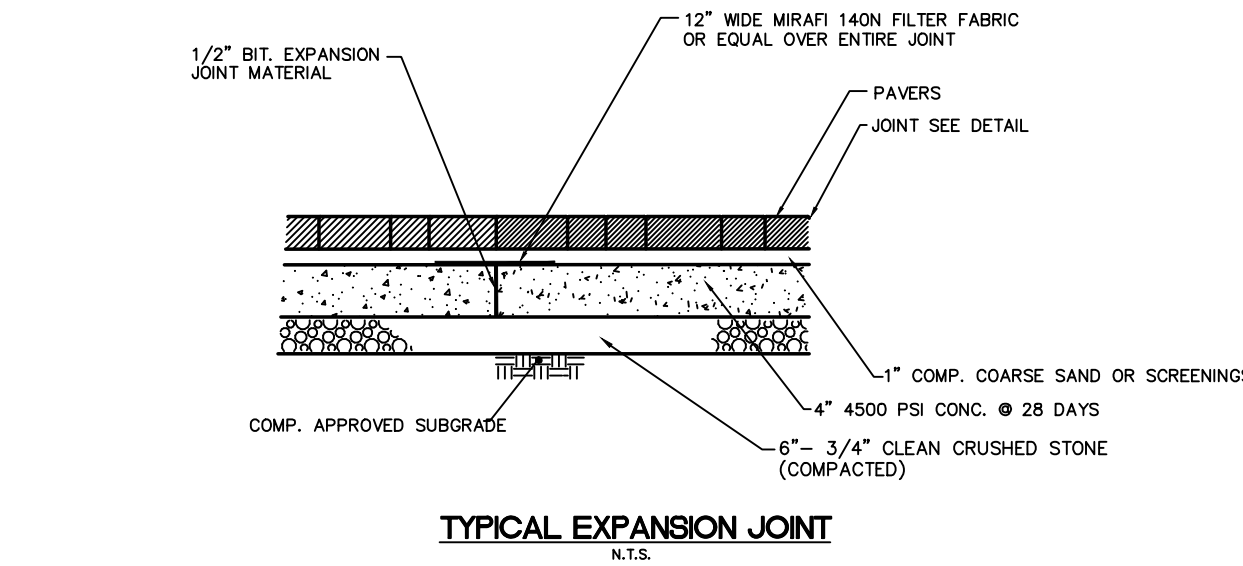
PAVER SIDEWALK CROSS-SECTION
N.T.S.



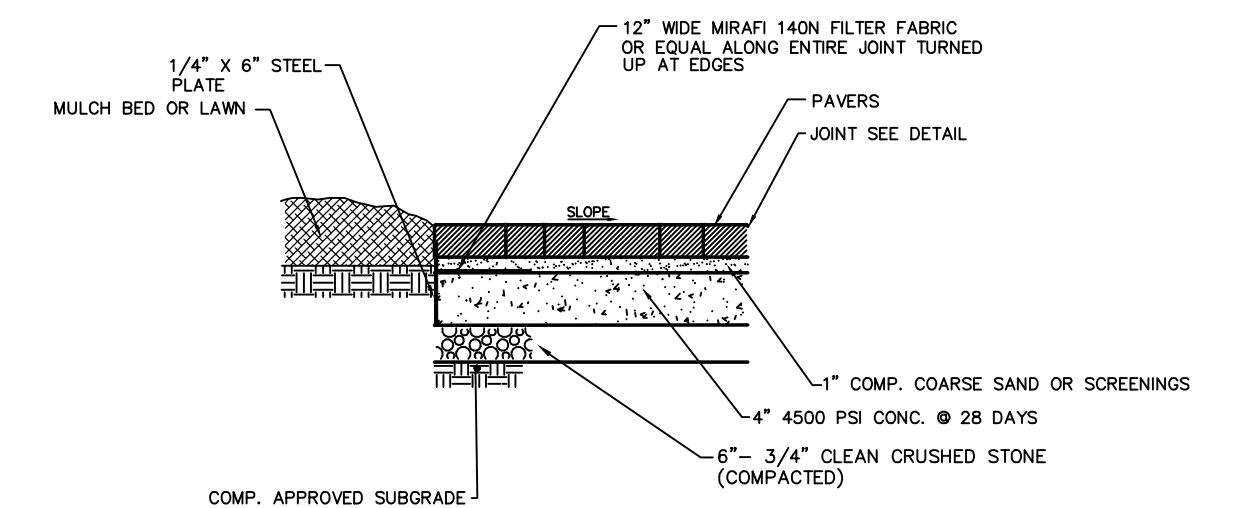
JOINT AT BUILDINGS/FOUNDATIONS AND WALLS
N.T.S.



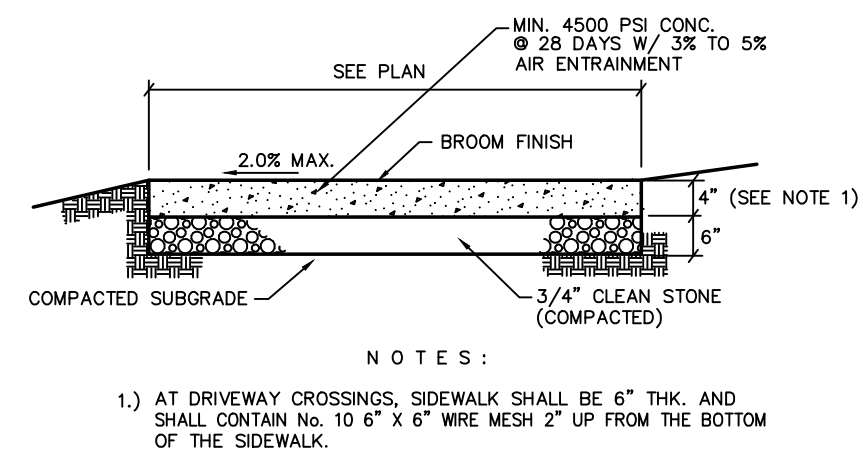
JOINT AT CURBS
N.T.S.



TYPICAL EXPANSION JOINT
N.T.S.



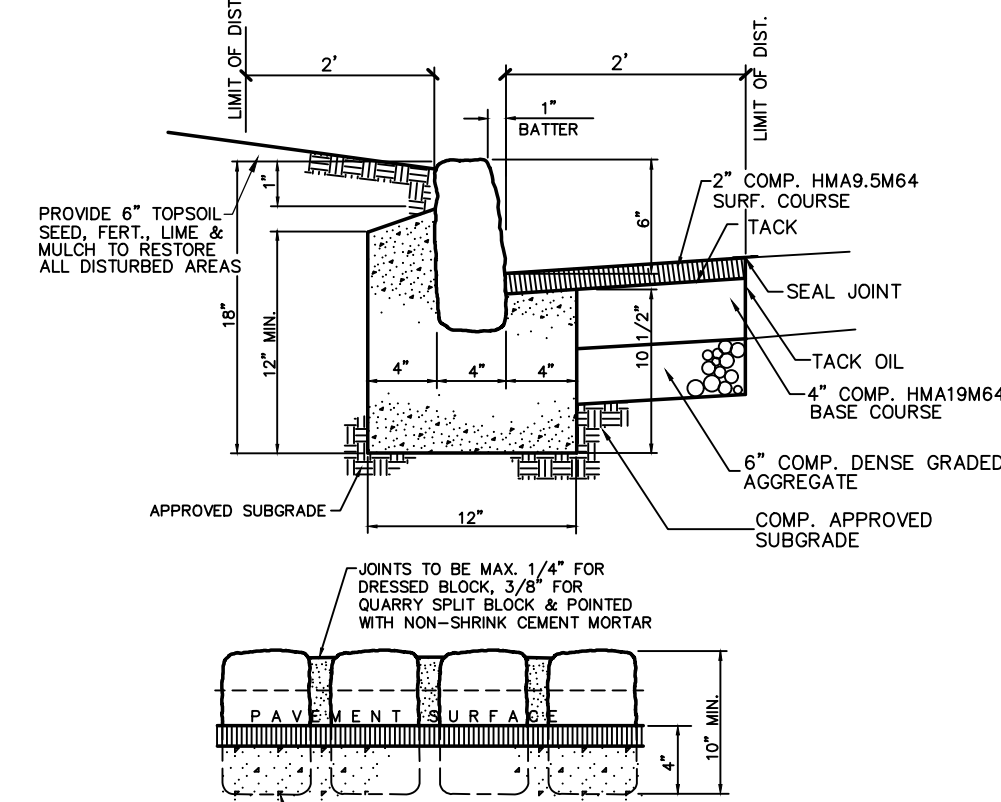
EDGES AT LAWN/PLANTING STRIPS
N.T.S.



CONCRETE SIDEWALK
NO SCALE

- 1.) AT DRIVEWAY CROSSINGS, SIDEWALK SHALL BE 6" THK AND SHALL CONTAIN NO. 10 # 4" WIRE MESH 2' UP FROM THE BOTTOM OF THE SIDEWALK.
- 2.) THE TOWNSHIP ENGINEER SHALL APPROVE ALL SUBGRADES PRIOR TO THE POURING OF ANY CONCRETE.
- 3.) EXPANSION JOINTS SHALL BE PROVIDED AT 20' (MAX) INTERVALS. JOINTS SHALL BE FILLED WITH 1/2" BIT. EXPANSION JOINT FILLER.
- 4.) ALL SIDEWALK THAT IS BROKEN, CRACKED OR OUT OF ALIGNMENT SHALL BE REPLACED PRIOR TO ACCEPTANCE.
- 5.) PROVIDE HALF DEPTH CONTRACTION JOINTS EVERY 4 FEET.
- 6.) ALL EXPOSED CONCRETE SURFACES TO BE TREATED WITH LUMSEAL PLUS CURE AND SEAL COMPOUND OR EQUIVALENT PER MANUFACTURER'S INSTRUCTIONS.

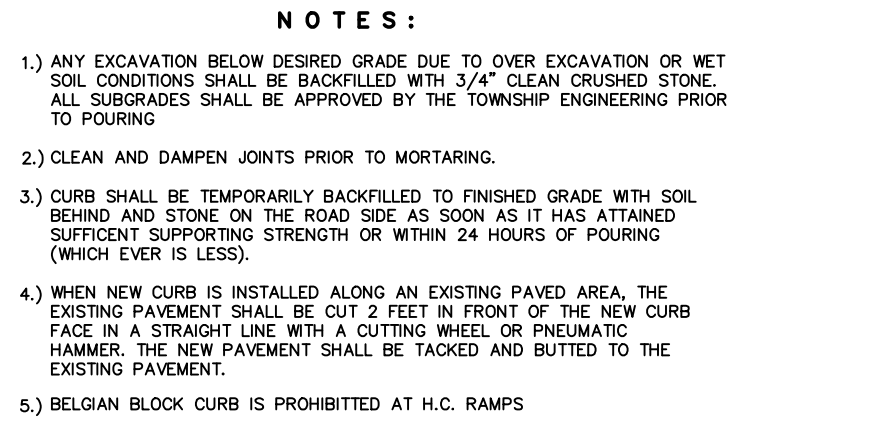
CONCRETE SIDEWALK
NO SCALE



BELGIAN BLOCK CURB
NO SCALE

- 1.) ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO POURING.
- 2.) CLEAN AND DAMPEN JOINTS PRIOR TO MORTARING.
- 3.) CURB SHALL BE TEMPORARILY BACKFILLED TO FINISHED GRADE WITH SOIL BEHIND AND STONE ON THE ROAD SIDE AS SOON AS IT HAS ATTAINED SUFFICIENT SUPPORTING STRENGTH OR WITHIN 24 HOURS OF POURING (WHICH EVER IS LESS).
- 4.) WHEN NEW CURB IS INSTALLED ALONG AN EXISTING PAVED AREA, THE EXISTING PAVEMENT SHALL BE CUT 2 FEET IN FRONT OF THE NEW CURB FACE IN A STRAIGHT LINE WITH A CUTTING WHEEL OR PNEUMATIC HAMMER. THE NEW PAVEMENT SHALL BE TACKED AND BUTTED TO THE EXISTING PAVEMENT.
- 5.) BELGIAN BLOCK CURB IS PROHIBITED AT H.C. RAMPS.

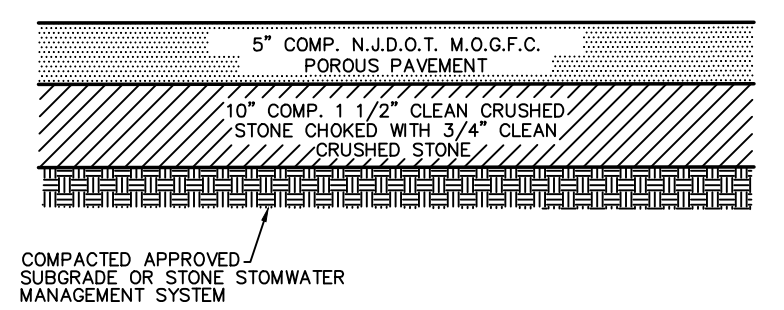
BELGIAN BLOCK CURB
NO SCALE



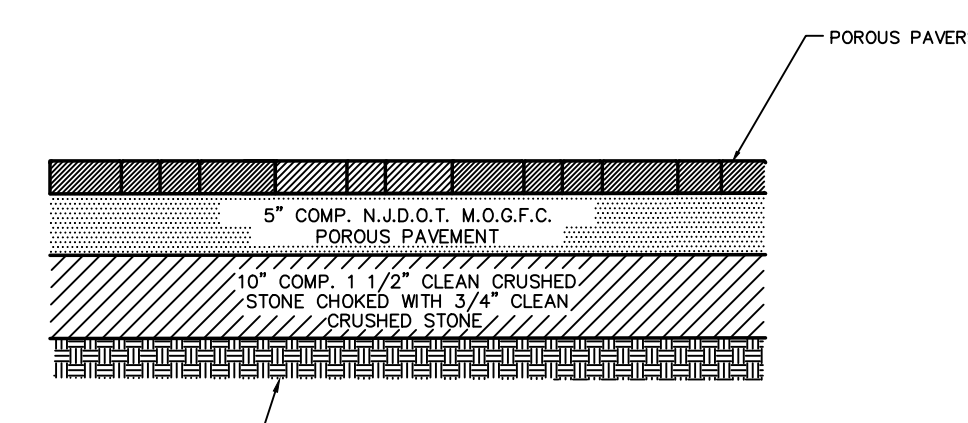
CONCRETE SIDEWALK ADJACENT TO BUILDING DETAIL
NO SCALE

- 1.) THE ENGINEER SHALL APPROVE ALL SUBGRADES PRIOR TO THE POURING OF ANY CONCRETE.
- 2.) EXPANSION JOINTS SHALL BE PROVIDED AT 20' (MAX) INTERVALS. JOINTS SHALL BE FILLED WITH 1/2" BIT. EXPANSION JOINT FILLER.
- 3.) ALL SIDEWALK THAT IS BROKEN, CRACKED OR OUT OF ALIGNMENT SHALL BE REPLACED PRIOR TO ACCEPTANCE.
- 4.) PROVIDE HALF DEPTH CONTRACTION JOINTS EVERY 4 FEET.
- 5.) ALL EXPOSED CONCRETE SURFACES TO BE TREATED WITH LUMSEAL PLUS CURE AND SEAL COMPOUND OR EQUIVALENT PER MANUFACTURER'S INSTRUCTIONS.
- 6.) THE RUNNING SLOPE OF THE SIDEWALK SHALL BE LESS THAN 5.0%.

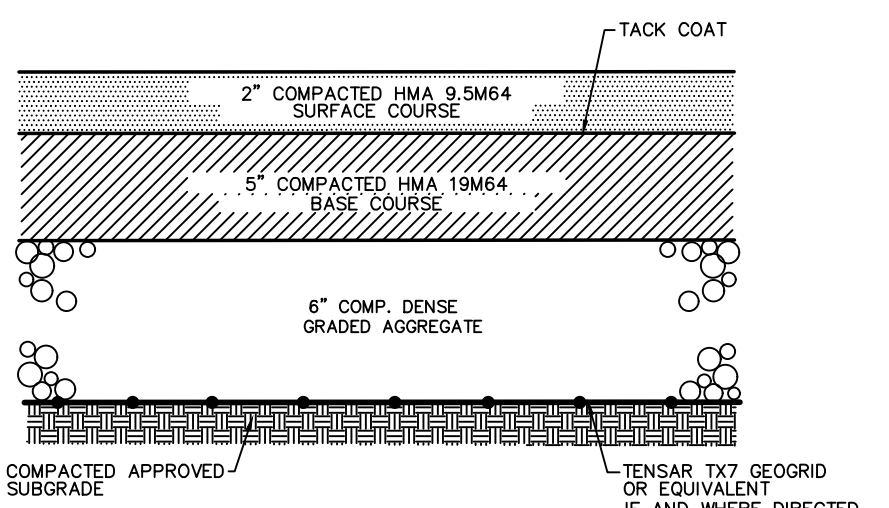
CONCRETE SIDEWALK ADJACENT TO BUILDING DETAIL
NO SCALE



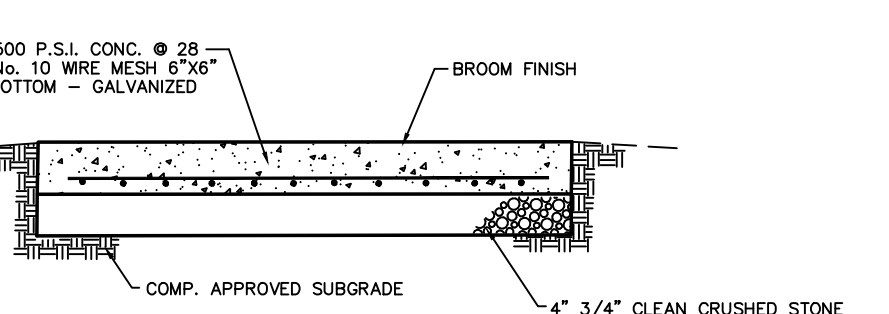
POROUS PAVEMENT CROSS-SECTION
NOT TO SCALE



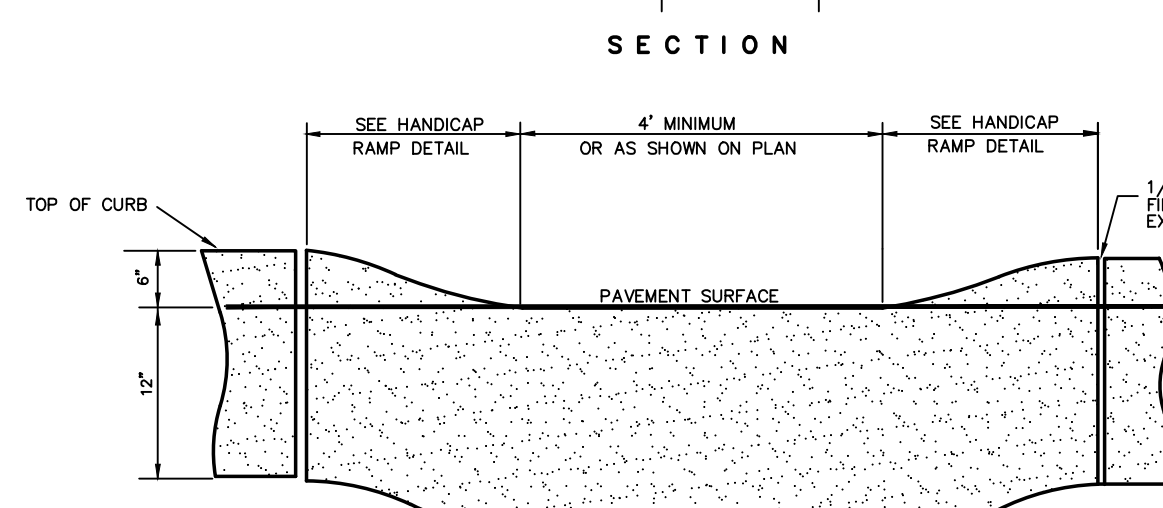
POROUS PAVERS DETAILS
NOT TO SCALE



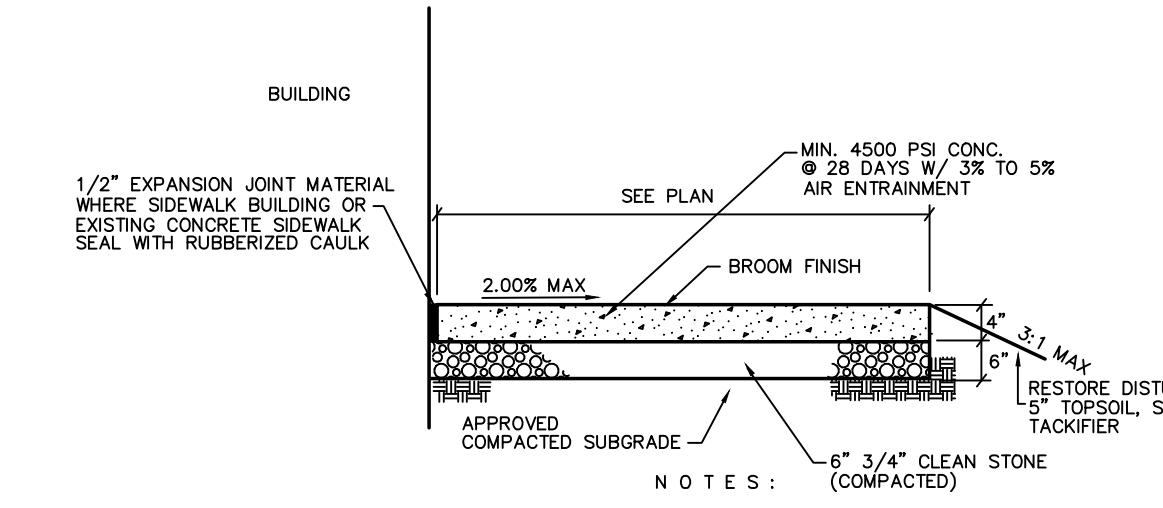
TYPICAL PAVEMENT CROSS-SECTION
NOT TO SCALE



CONCRETE PAD DETAIL
N.T.S.



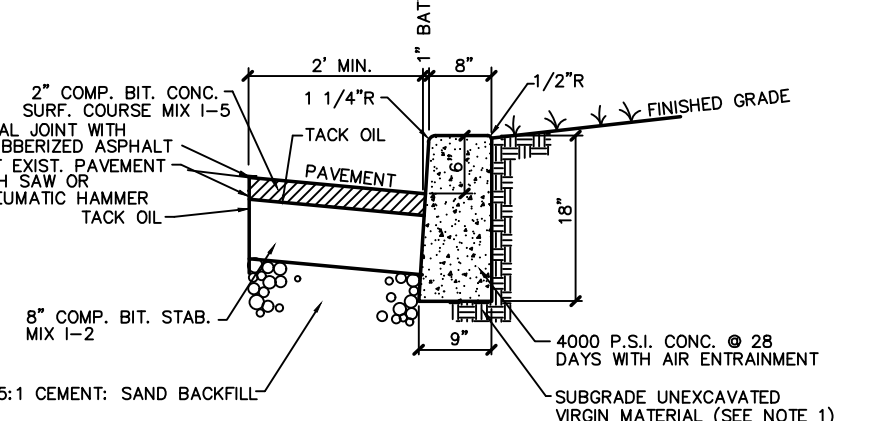
FULLY DEPRESSED CURB AT HANDICAP RAMP
NO SCALE



CONCRETE SIDEWALK ADJACENT TO BUILDING DETAIL
NO SCALE

- 1.) THE ENGINEER SHALL APPROVE ALL SUBGRADES PRIOR TO THE POURING OF ANY CONCRETE.
- 2.) EXPANSION JOINTS SHALL BE PROVIDED AT 20' (MAX) INTERVALS. JOINTS SHALL BE FILLED WITH 1/2" BIT. EXPANSION JOINT FILLER.
- 3.) ALL SIDEWALK THAT IS BROKEN, CRACKED OR OUT OF ALIGNMENT SHALL BE REPLACED PRIOR TO ACCEPTANCE.
- 4.) PROVIDE HALF DEPTH CONTRACTION JOINTS EVERY 4 FEET.
- 5.) ALL EXPOSED CONCRETE SURFACES TO BE TREATED WITH LUMSEAL PLUS CURE AND SEAL COMPOUND OR EQUIVALENT PER MANUFACTURER'S INSTRUCTIONS.
- 6.) THE RUNNING SLOPE OF THE SIDEWALK SHALL BE LESS THAN 5.0%.

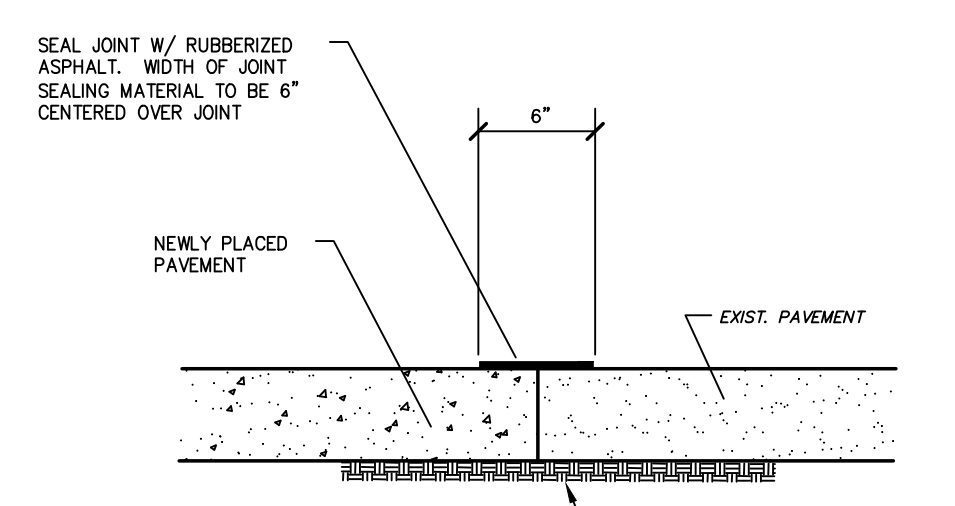
CONCRETE SIDEWALK ADJACENT TO BUILDING DETAIL
NO SCALE



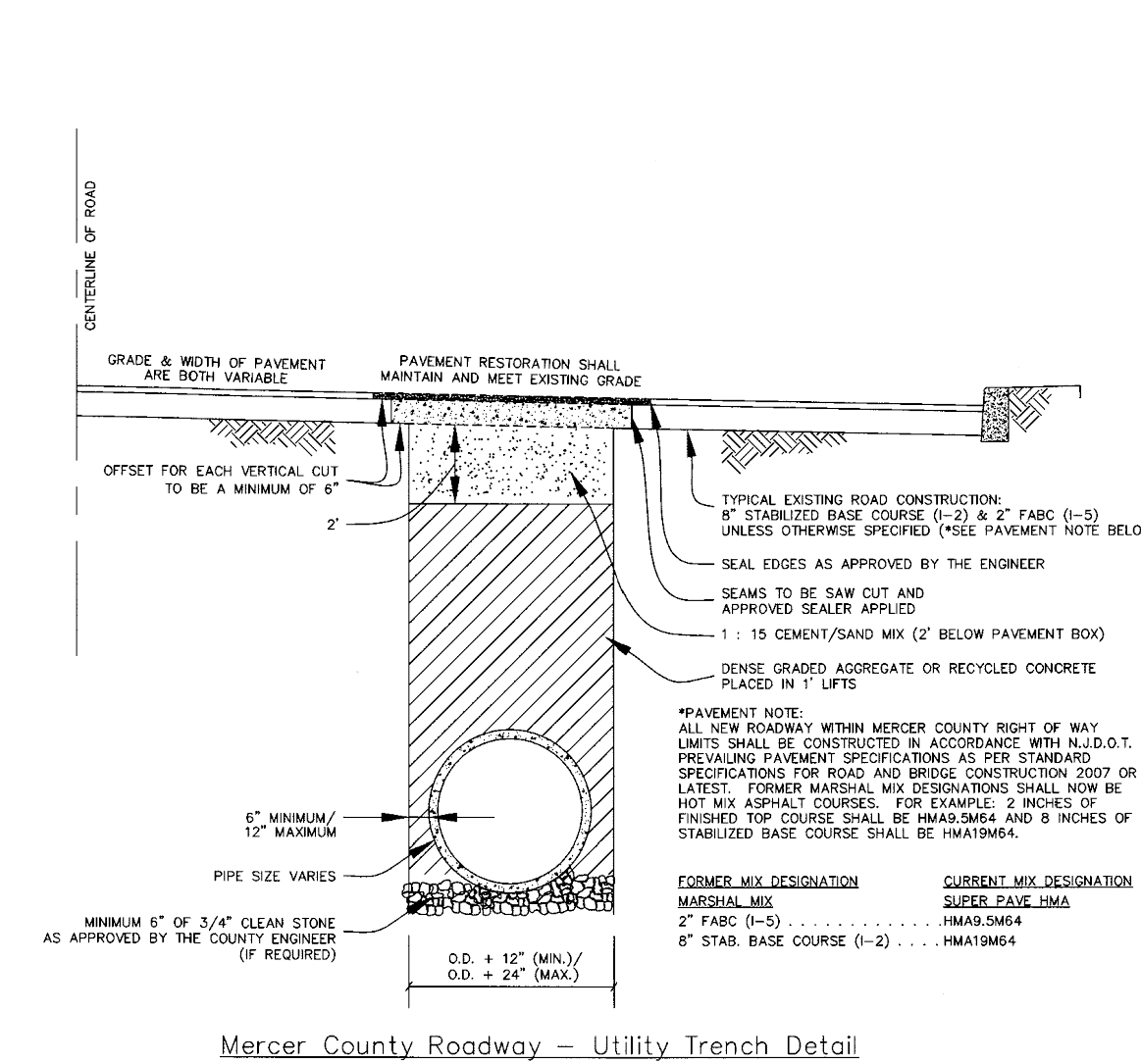
8'X9'X18" MERCER COUNTY CONCRETE CURB
NOT TO SCALE

- 1.) ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE.
- 2.) EXPANSION JOINTS OF CELLULAR COMPRESSED MATERIAL TO BE PLACED AT 20' INTERVALS AND 1/2" PREMOISTENED EXPANSION JOINTS TO BE PLACED AS SPECIALLY ADJUSTED TO ALL ADJUTING CONCRETE STRUCTURES AS THE ENGINEER MAY DIRECT. CONSTRUCTION JOINTS TO BE PROVIDED EVERY 20' ALTERNATING WITH EXPANSION JOINTS.
- 3.) CURB SHALL BE TEMPORARILY BACKFILLED TO FINISHED GRADE WITH SOIL BEHIND AND STONE ON THE ROAD SIDE AS SOON AS IT HAS ATTAINED SUFFICIENT SUPPORTING STRENGTH OR WITHIN 24 HOURS OF POURING (WHICH EVER IS LESS).
- 4.) WHEN NEW CURB IS INSTALLED ALONG AN EXISTING PAVED AREA, THE EXISTING PAVEMENT SHALL BE CUT 2 FEET IN FRONT OF THE NEW CURB FACE IN A STRAIGHT LINE AT A 45 DEGREE ANGLE WITH A CUTTING WHEEL OR PNEUMATIC HAMMER. THE NEW PAVEMENT SHALL BE TACKED AND BUTTED TO THE EXISTING PAVEMENT IN ACCORDANCE WITH PAVEMENT WIDENING DETAIL.
- 5.) FACE FINISHING MAY BE USED IF CONTRACTOR CAN DEMONSTRATE TO ENGINEER THAT UNDERMINING OF PAVEMENT WILL NOT OCCUR AND FURTHER SUBJECT TO APPROVAL BY COUNTY ENGINEER OR COUNTY ROAD BOARD. HOWEVER, THE UNIT PRICE BID FOR CURB SHALL INCLUDE 2" MIN. PAVEMENT REPLACEMENT.

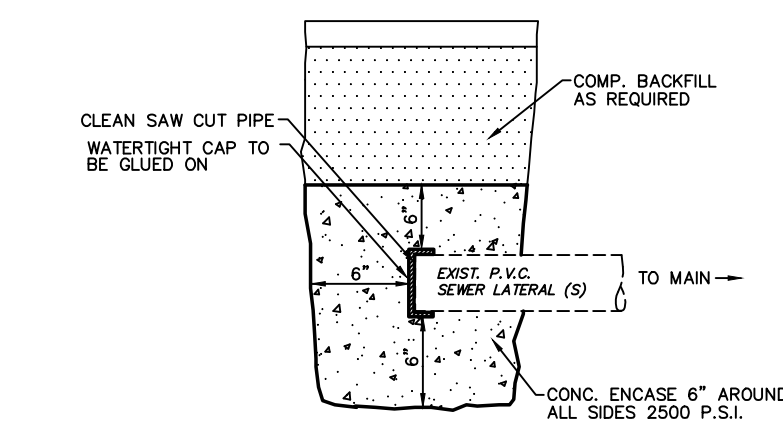
REPLACEMENT COUNTY ROAD PAVEMENT CROSS-SECTION
NOT TO SCALE



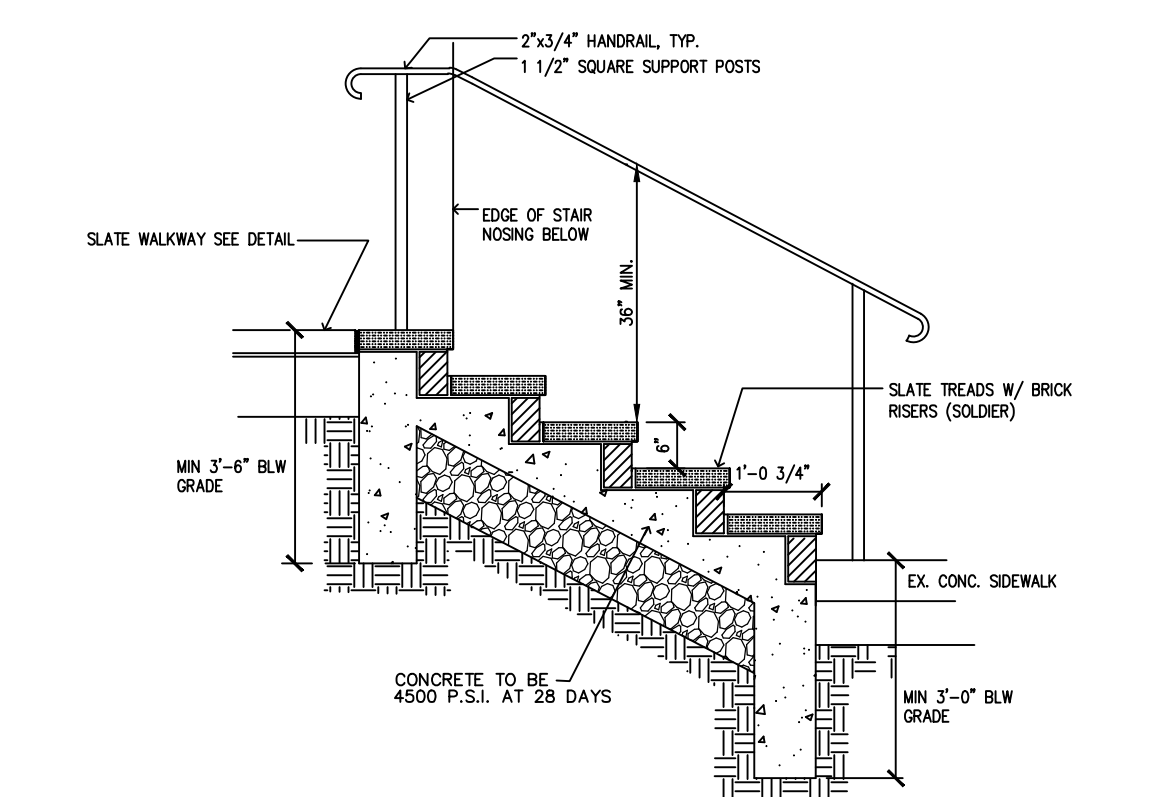
PAVEMENT JOINT SEALING
NOT TO SCALE



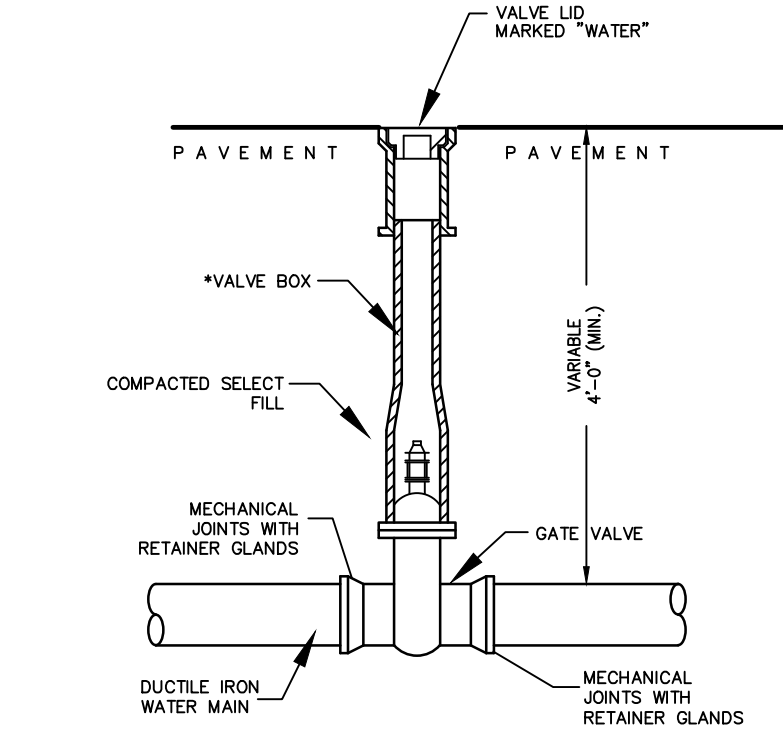
SANITARY SEWER PIPE EMBEDMENT
NOT TO SCALE



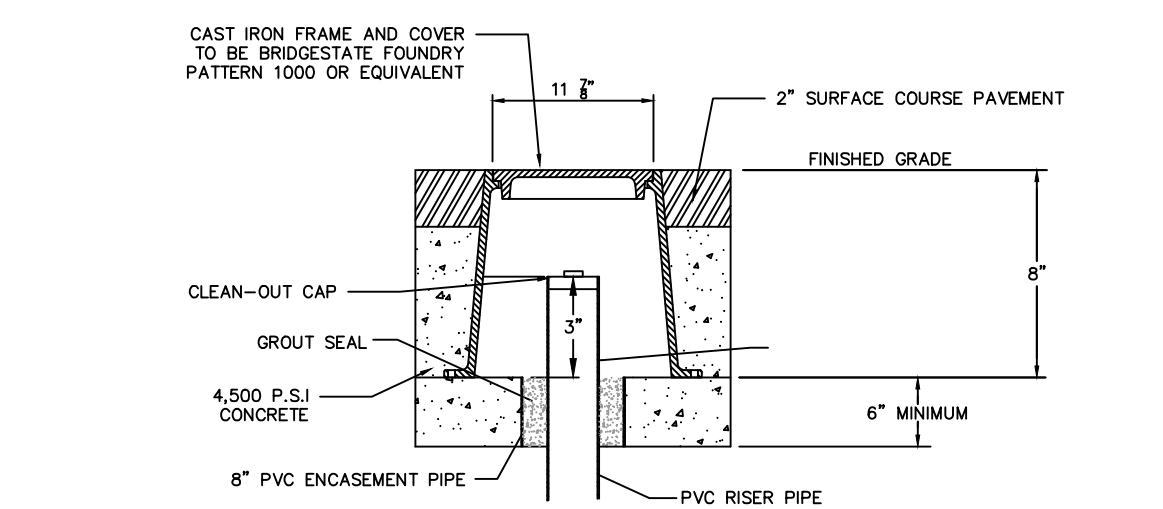
CAPPING OF SANITARY SEWER LATERAL (S)
NOT TO SCALE



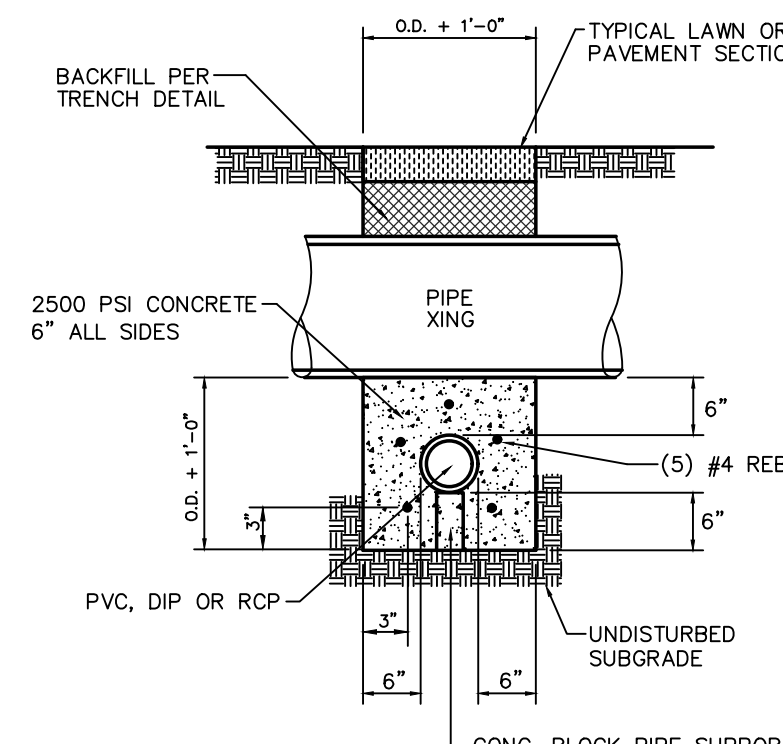
SLATE STEP AND HANDRAIL DETAIL
NOT TO SCALE



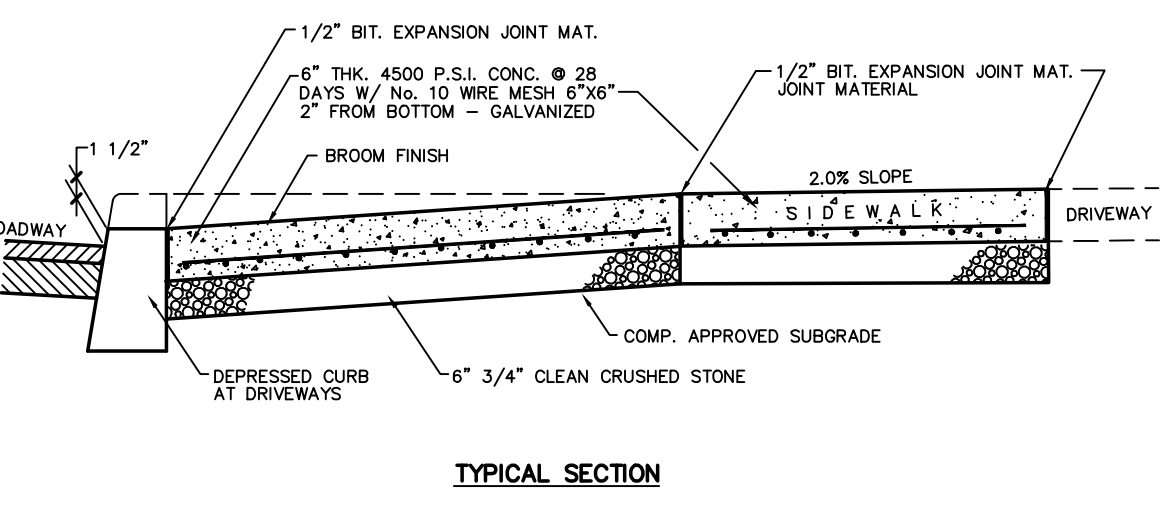
GATE VALVE AND VALVE BOX DETAIL
NOT TO SCALE



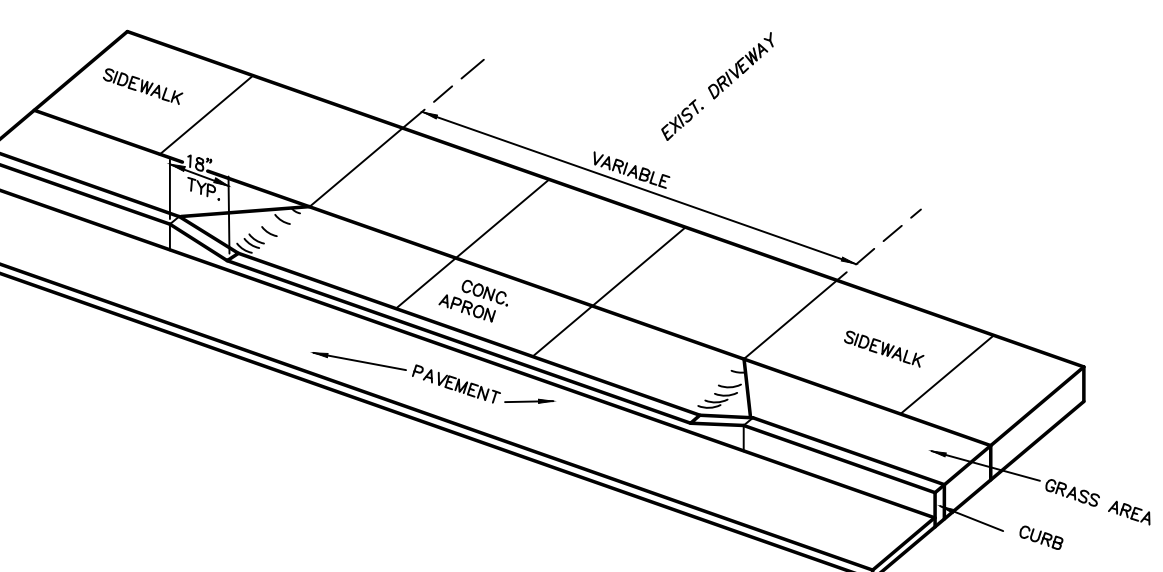
CLEANOUT FRAME AND COVER FOR USE ON PAVED AREAS
NOT TO SCALE



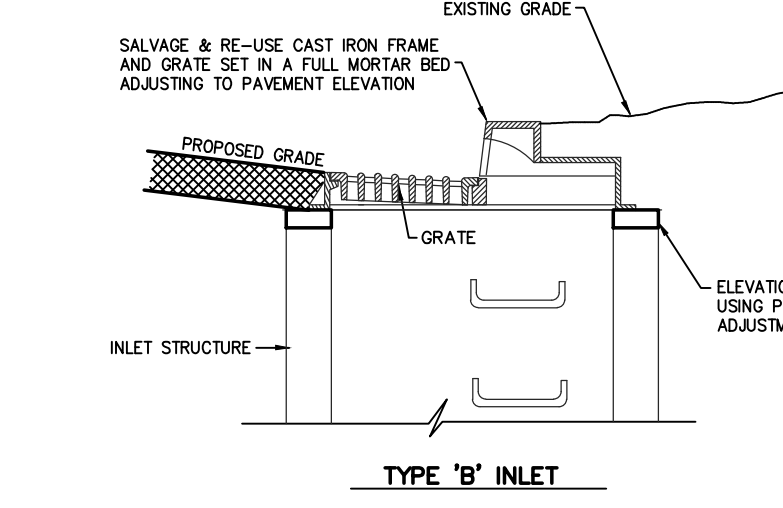
CONCRETE ENCASUREMENT DETAIL
N.T.S.



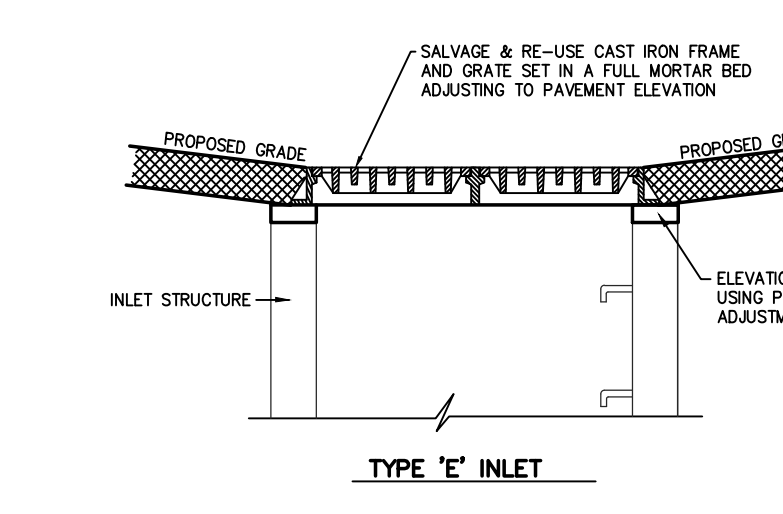
TYPICAL SECTION
N.T.S.



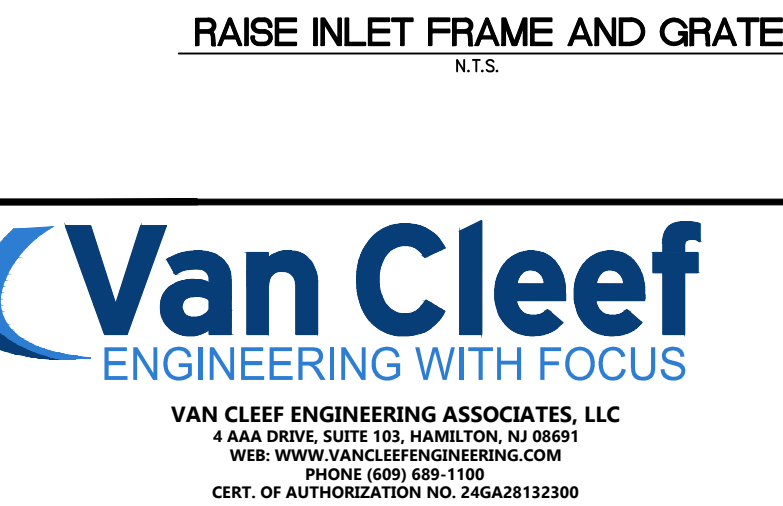
CONCRETE DRIVEWAY APRON DETAIL
N.T.S.



TYPE 'B' INLET
N.T.S.



TYPE 'E' INLET
N.T.S.



RAISE INLET FRAME AND GRATE
N.T.S.

DATE:	MAY 20, 2022
SCALE:	AS NOTED
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB

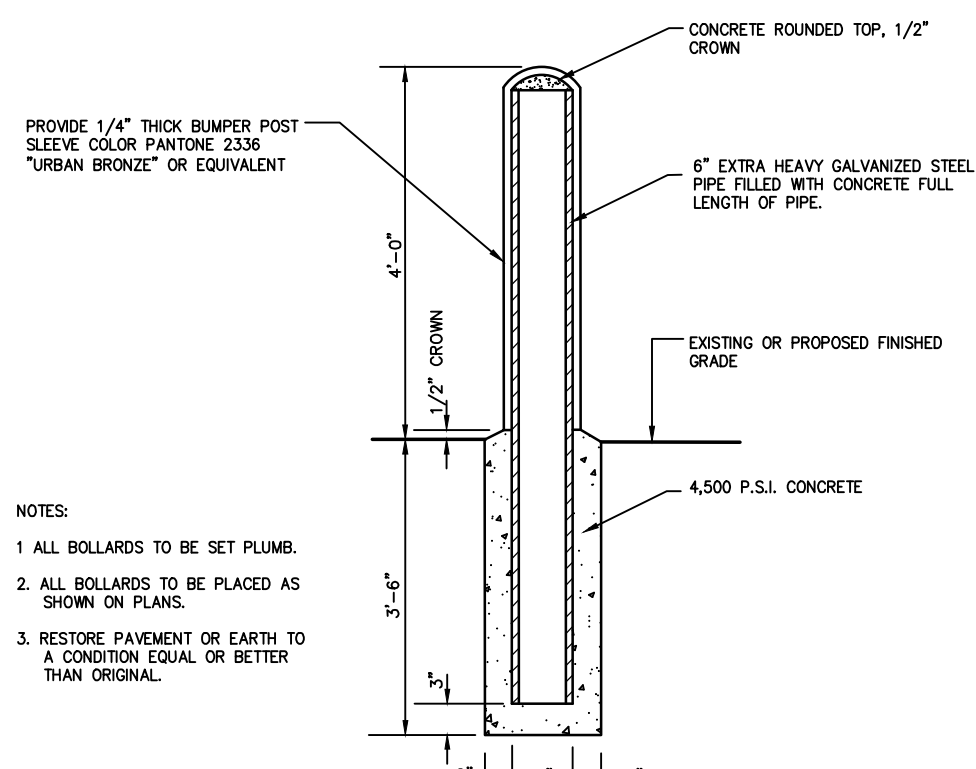
JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246E052258005

DATE: 5/20/22

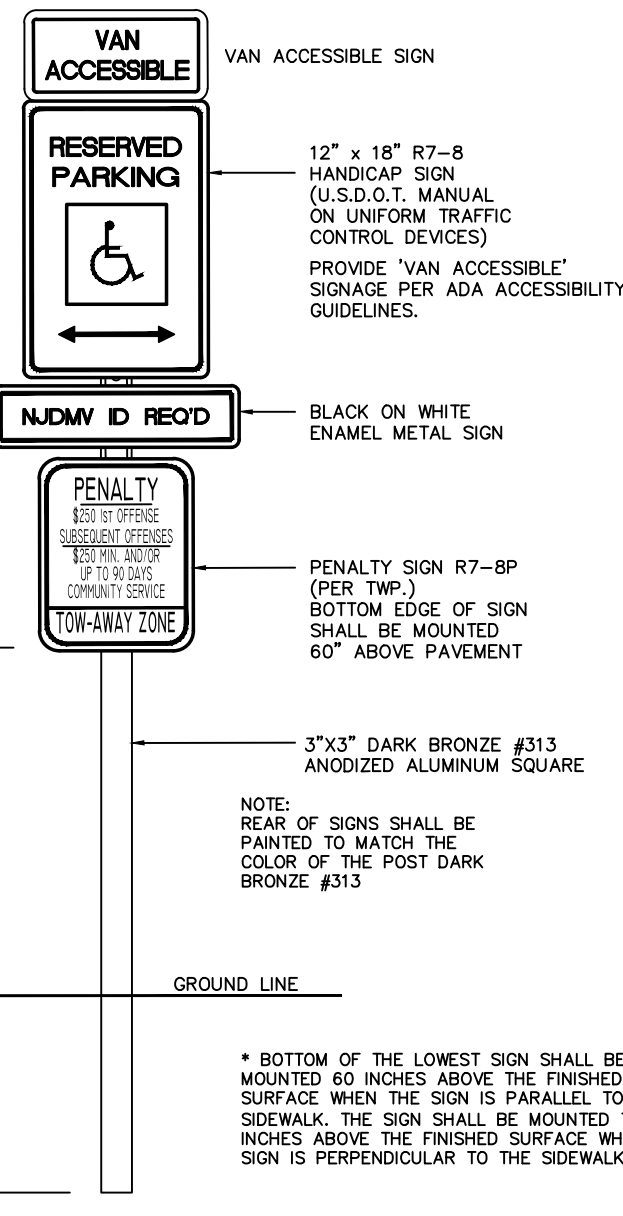
Van Cleaf
ENGINEERING WITH FOCUS

BRIDGE/Highway Construction Inspection
Environmental Geotechnical/Drum
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

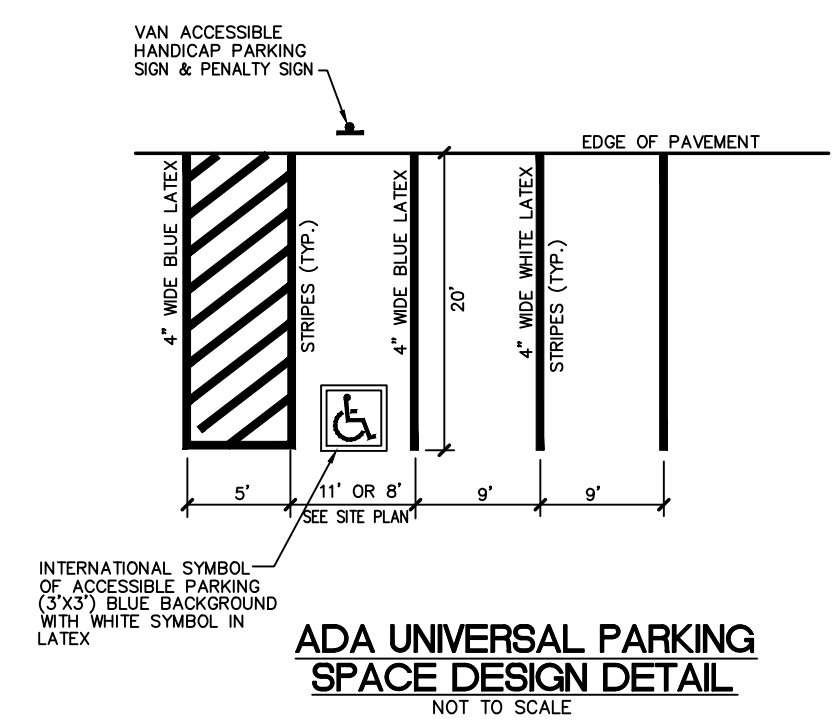
CONSTRUCTION DETAILS
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY



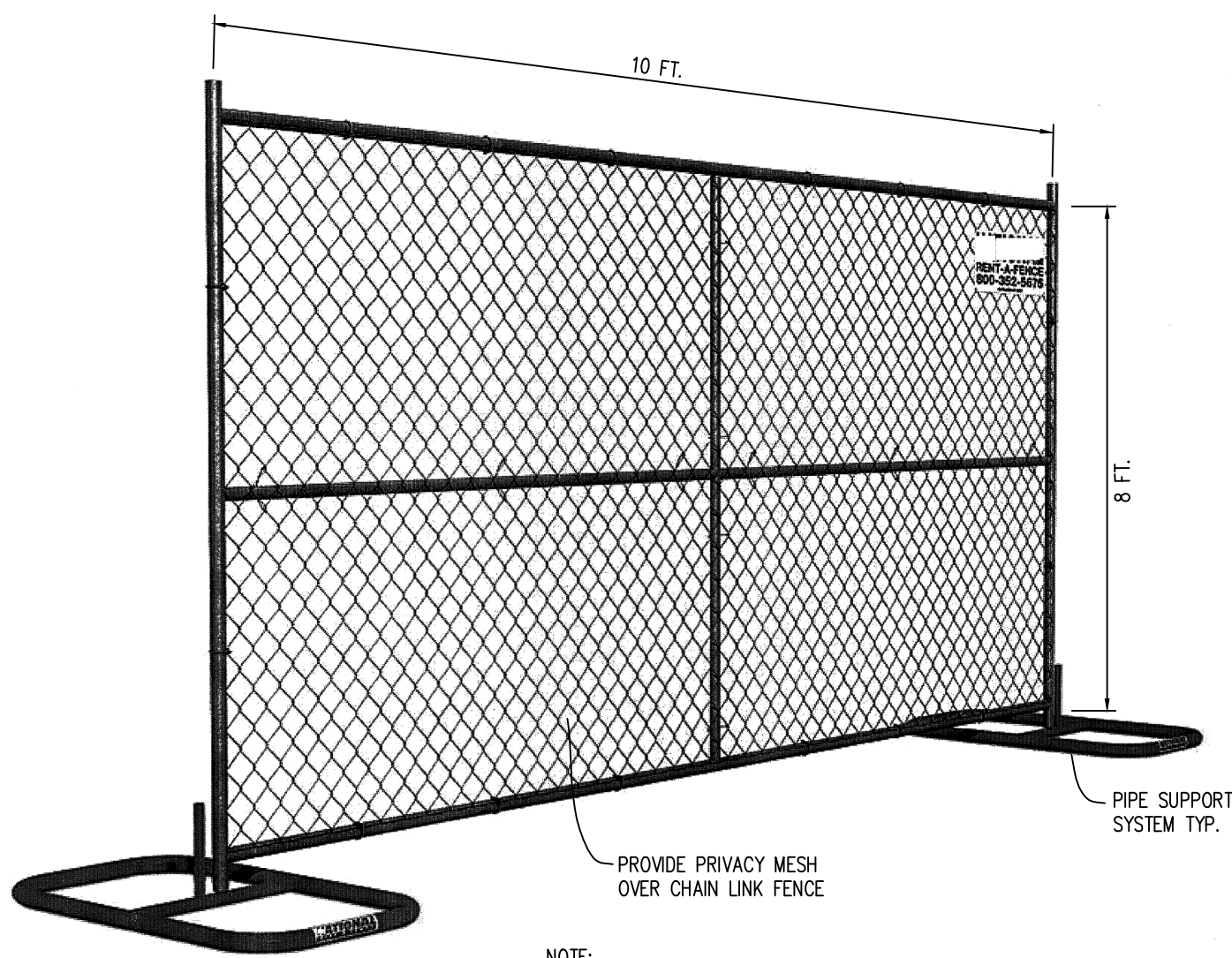
PROTECTIVE BOLLARD DETAIL
NO SCALE



HANDICAPPED PARKING SIGN
NOT TO SCALE



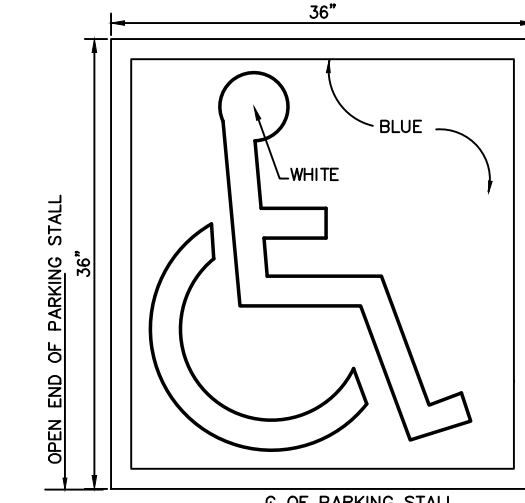
ADA UNIVERSAL PARKING SPACE DESIGN DETAIL
NOT TO SCALE



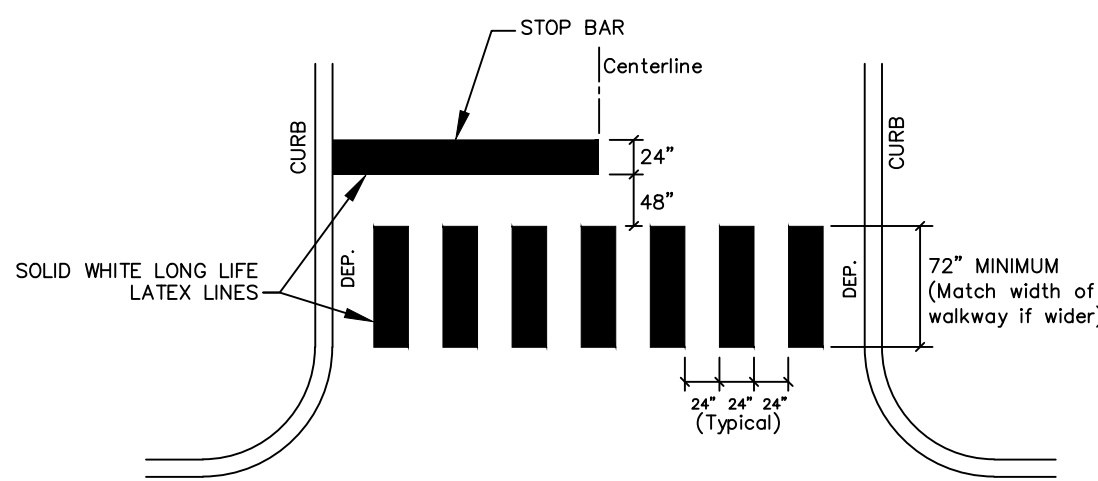
TEMPORARY CONSTRUCTION FENCING
(NOT TO SCALE)



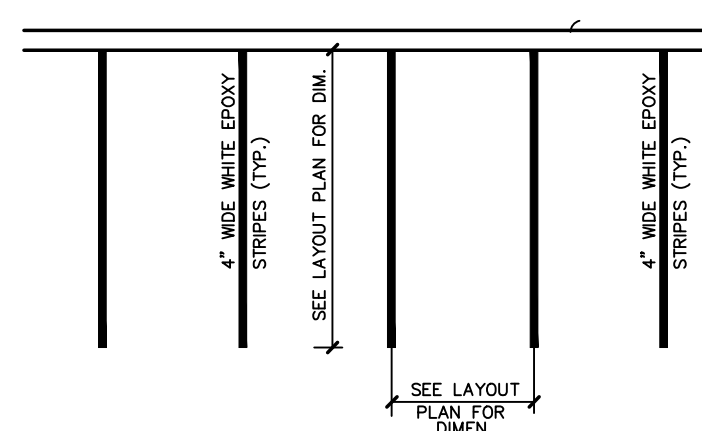
PEDESTRIAN CROSSING SIGN DETAIL
N.T.S.



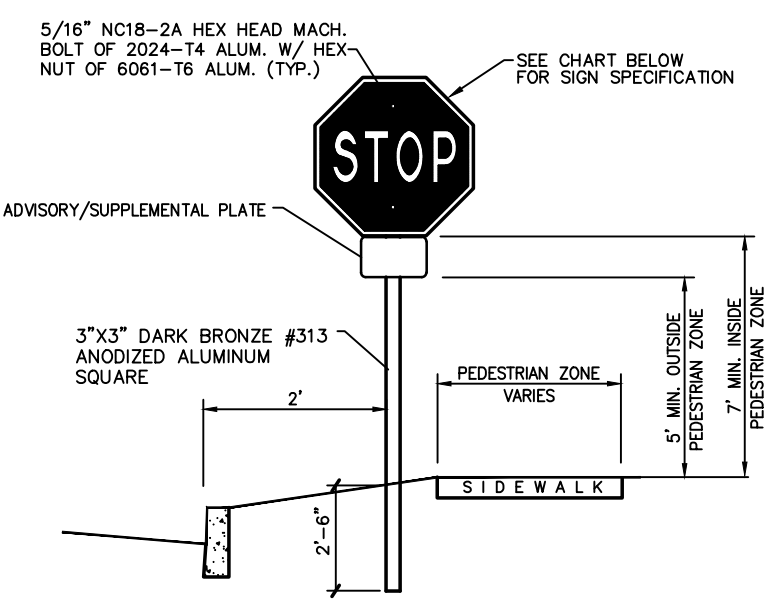
HANDICAPPED PARKING SYMBOL
NOT TO SCALE



CROSSWALK AND STOP BAR STRIPING DETAIL
N.T.S.

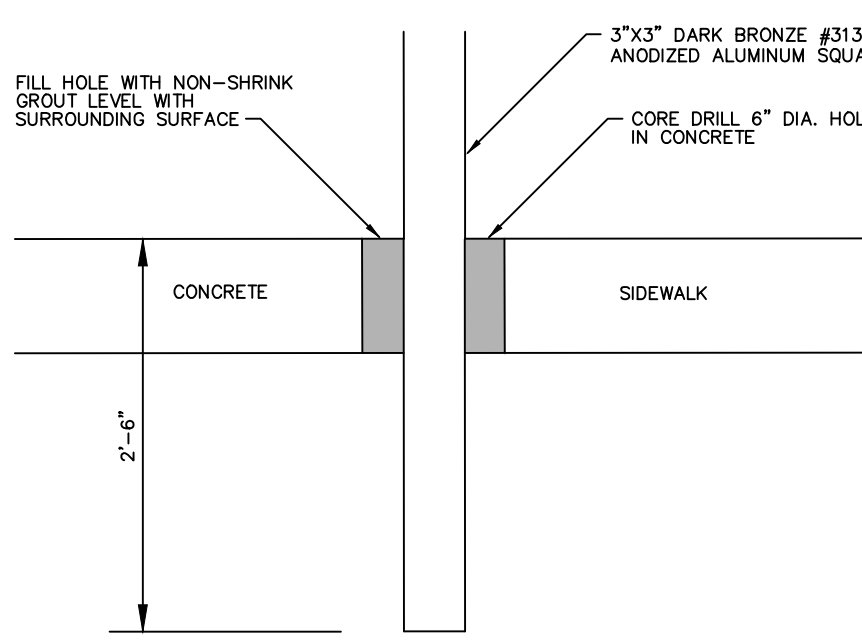


PARKING SPACE DETAIL
NOT TO SCALE



STOP SIGN DETAIL
N.T.S.

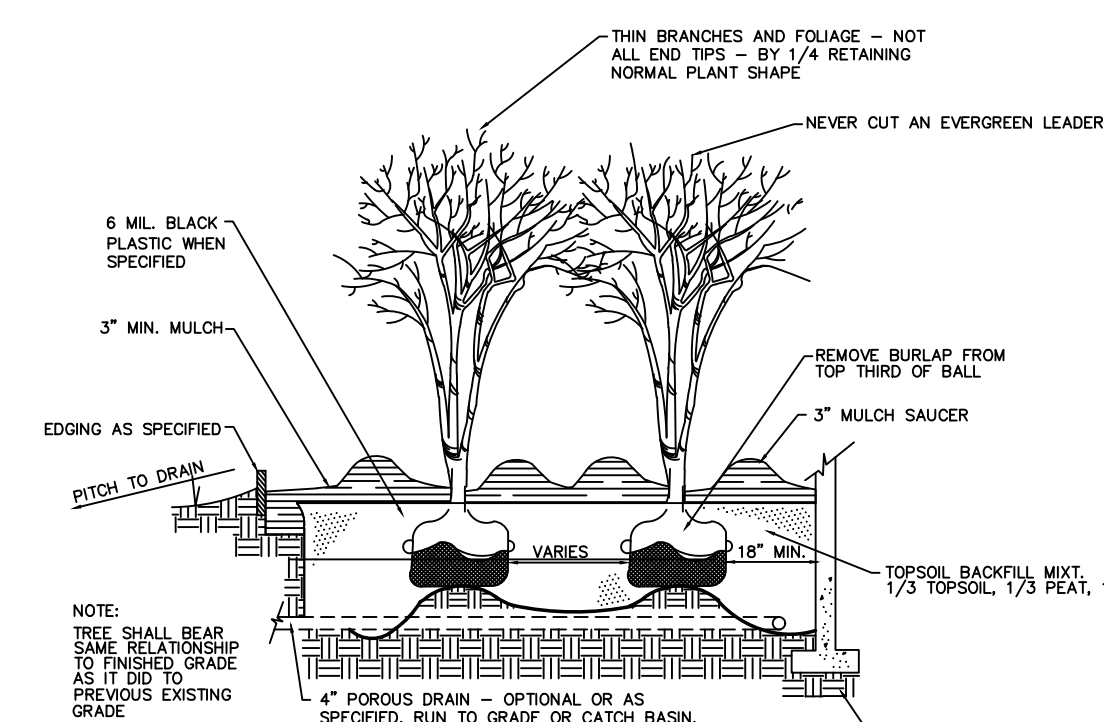
WARNING AND/OR REGULATORY SIGN DETAIL
N.T.S.



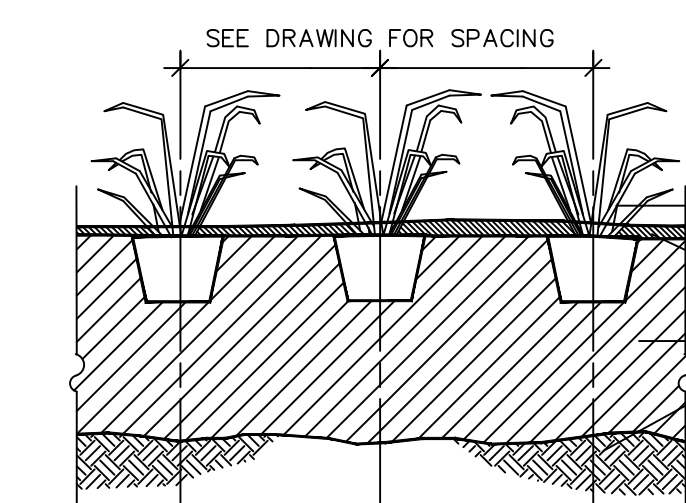
SIGN MOUNTING IN CONCRETE
NOT TO SCALE



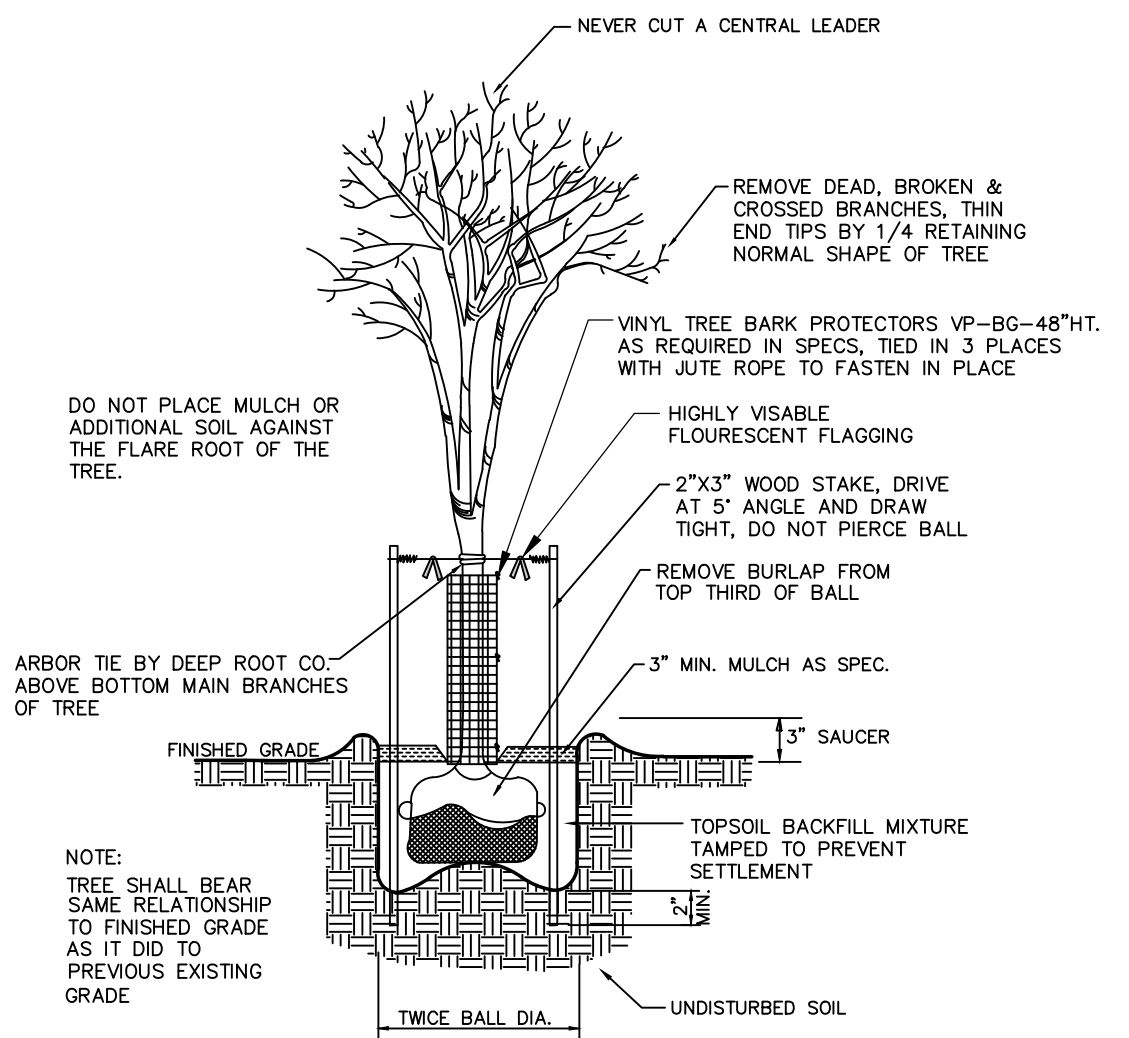
PAVEMENT MARKINGS DETAIL
NOT TO SCALE



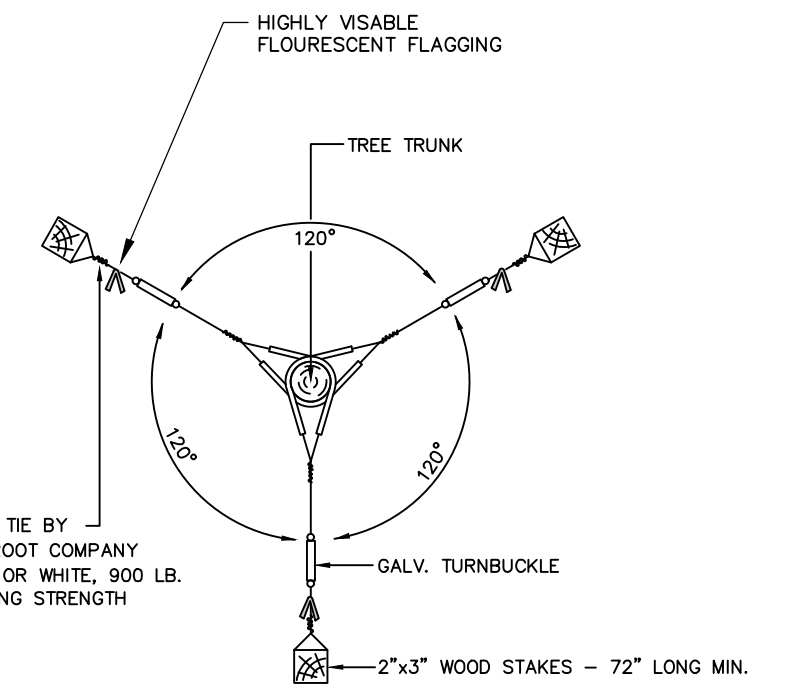
TYPICAL SHRUB BED PLANTING
NO SCALE



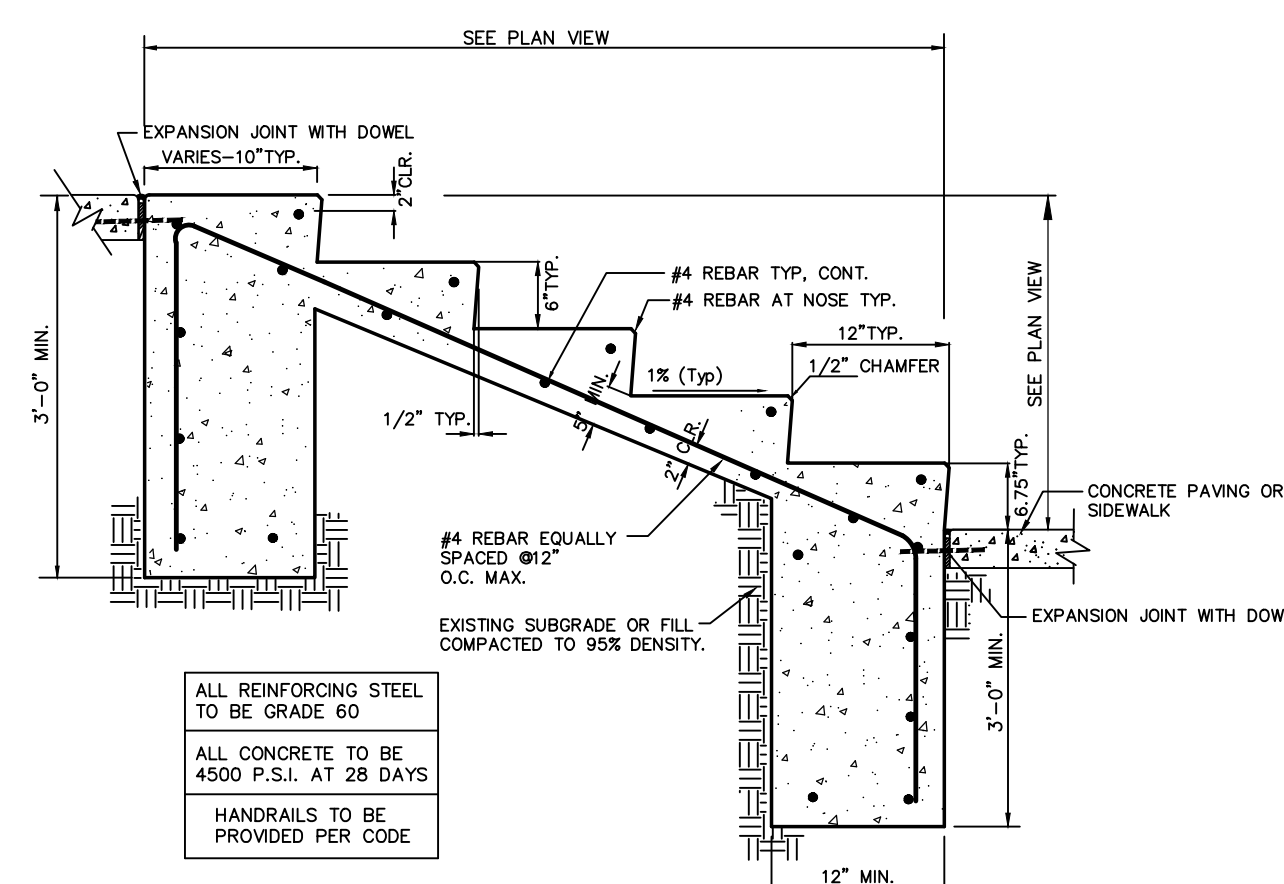
GROUNDCOVER PLANTING
NO SCALE



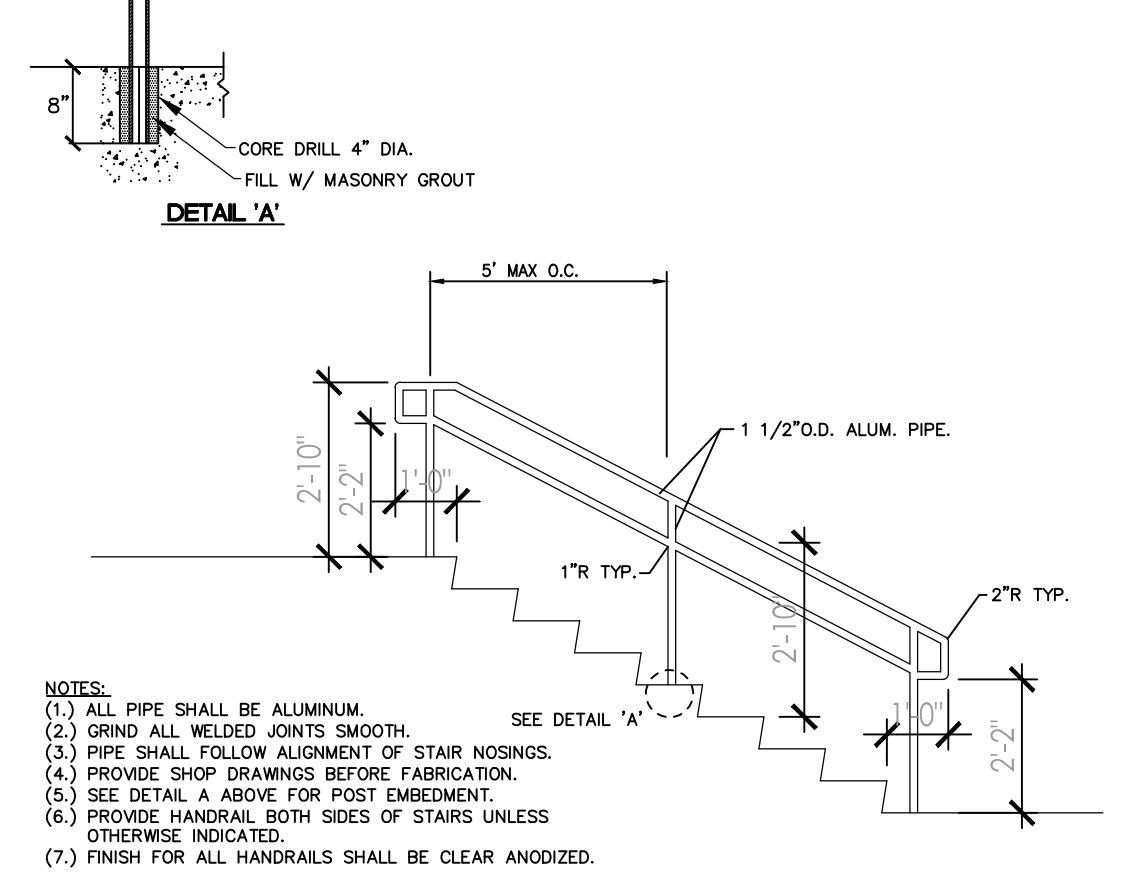
TYPICAL PLANTING FOR TREES TO 3 1/2" CAL.
(NOT TO SCALE)



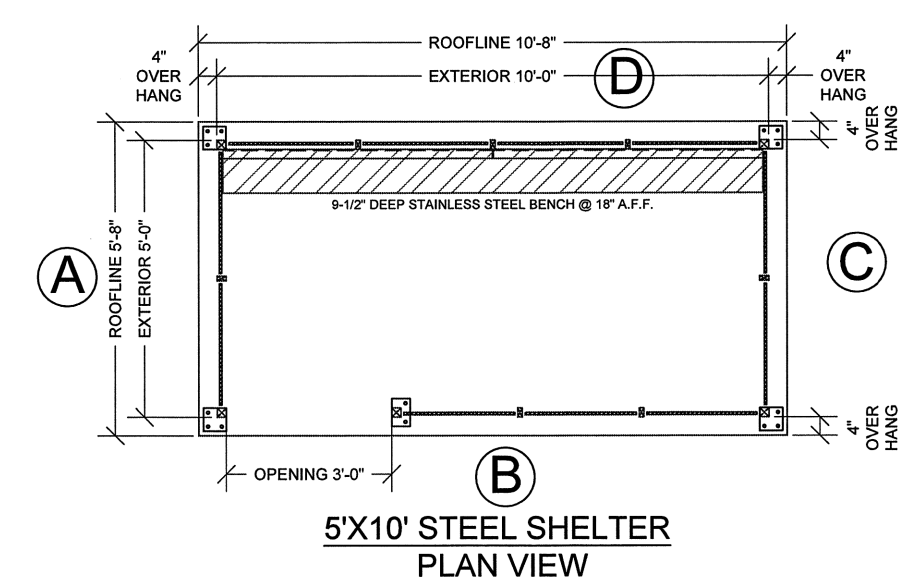
TYPICAL GUYING DETAIL
(NOT TO SCALE)



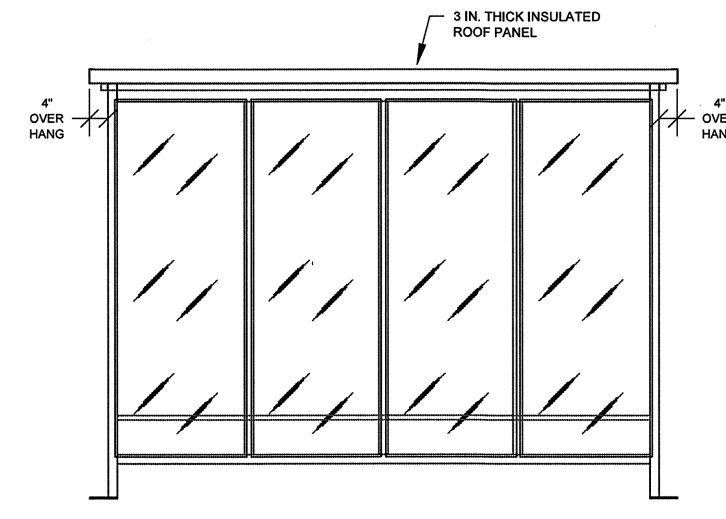
TYPICAL SECTION THROUGH STAIRS
N.T.S.



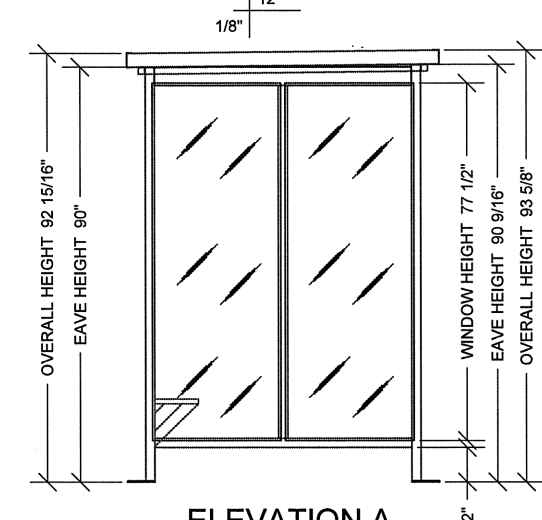
ALUMINUM STAIR HANDRAIL
N.T.S.



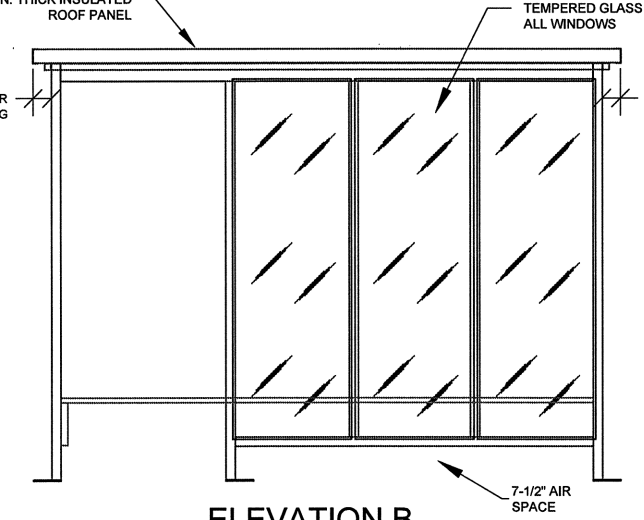
5'X10' STEEL SHELTER PLAN VIEW



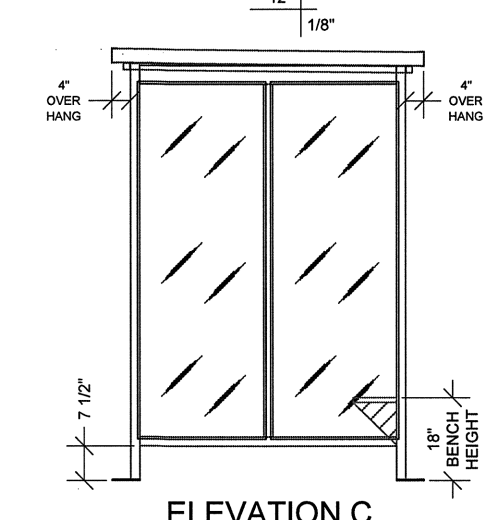
ELEVATION D



ELEVATION A



ELEVATION B



ELEVATION C

BUS SHELTER DETAIL
NOT TO SCALE

- NOTE:
- EACH SHELTER MUST BE ANCHORED TO CONCRETE PAD IN A MINIMUM OF FOUR (4) LOCATIONS. (SEE SHELTER ANCHOR DETAIL.)
 - CONTRACTOR SHALL PROVIDE COLOR SAMPLES FOR SELECTION.

2	REV. PER LAYOUT CHANGES	JAB	6/2/23	CHECKED BY:	PDQ
1	PER TOWNSHIP & OUTSIDE AGENCY COMMENTS	JAB	8/20/22	JOB NO.	20-02-PEB
REV.	DESCRIPTION	AUTH.	DATE		

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246E052258005

DATE: MAY 20, 2022
SCALE: AS NOTED
DESIGNED BY: JAB
DRAWN BY: RRF/RKY
CHECKED BY: PDQ
JOB NO.: 20-02-PEB

Van Cleaf
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
4000 BIRCH DRIVE SUITE 100 HANOVER, NJ 08030
WWW.VANCLEEFENGINEERING.COM
PHONE: 609.689.1100
CERT. OF AUTHORIZATION NO. 246A2813200

CONSTRUCTION DETAILS
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

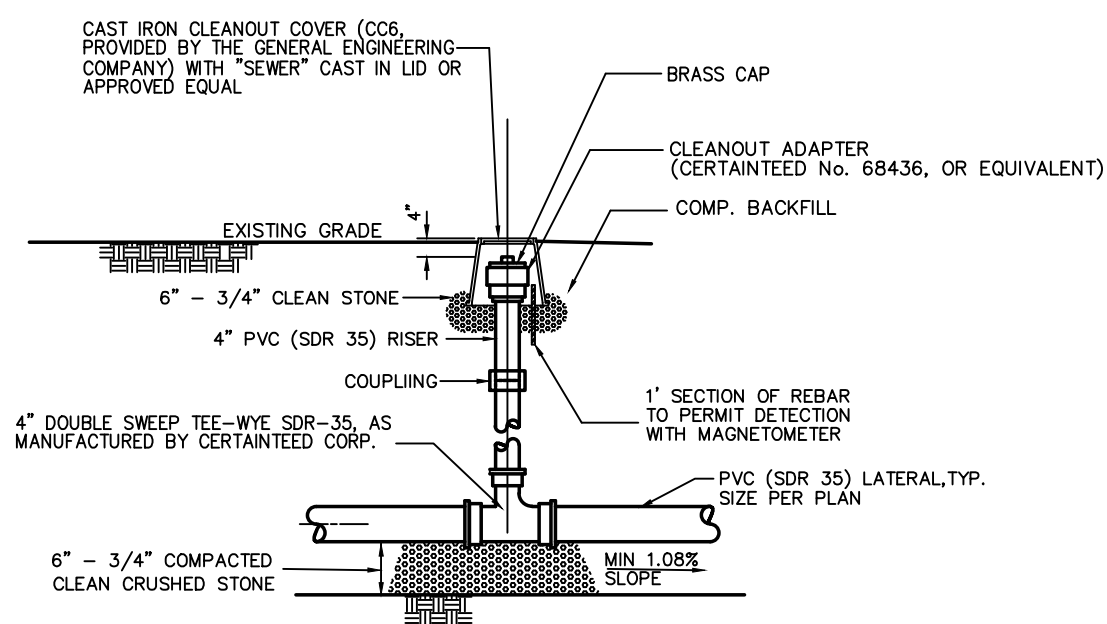
Bridge/Highway Construction Inspection
Environmental Geotechnical/Dam
Landscape Architecture
Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

13/17

ONLY THOSE PLANS WHICH CONTAIN A DIGITAL SIGNATURE OF THE RESPONSIBLE PROFESSIONAL ENGINEER SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY REVISIONS, CHANGES, OR ALTERATIONS MADE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

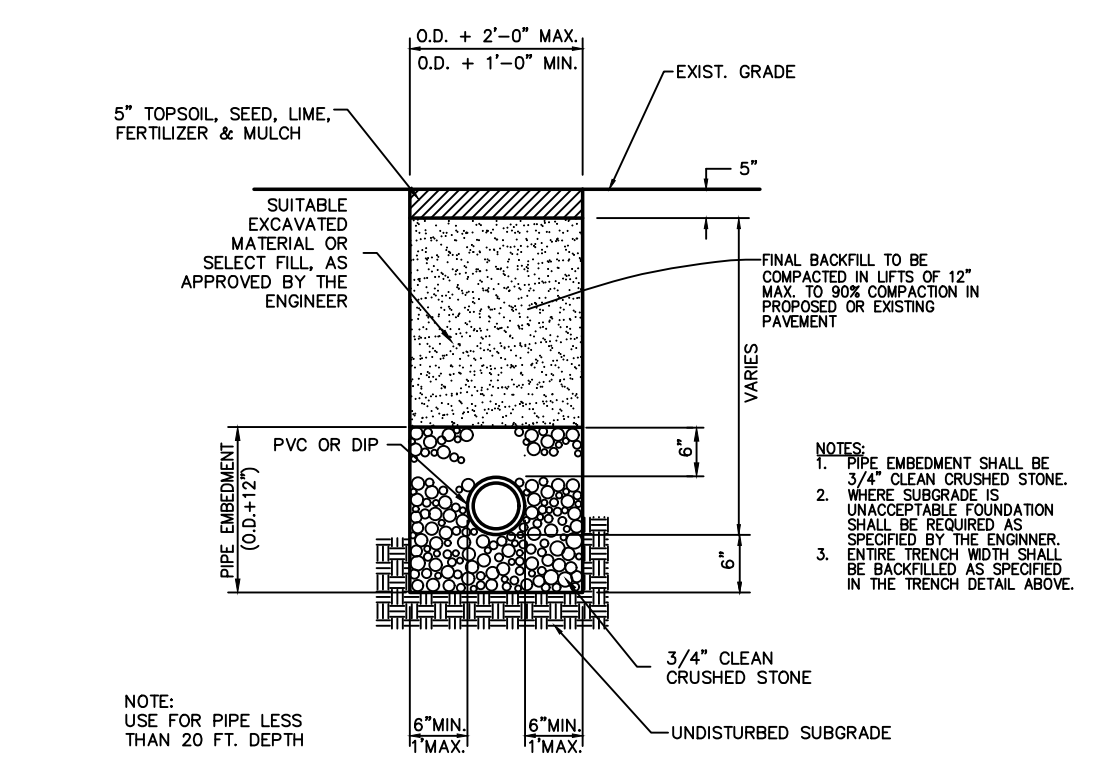
TO LOCATE UNDERGROUND UTILITIES
OR VIEW RECORDS TO THE BUREAU OF PUBLIC WORKS
THREE (3) WORKDAYS NOTICE
IS REQUIRED.

811
Dig Safely.
1-888-275-1000

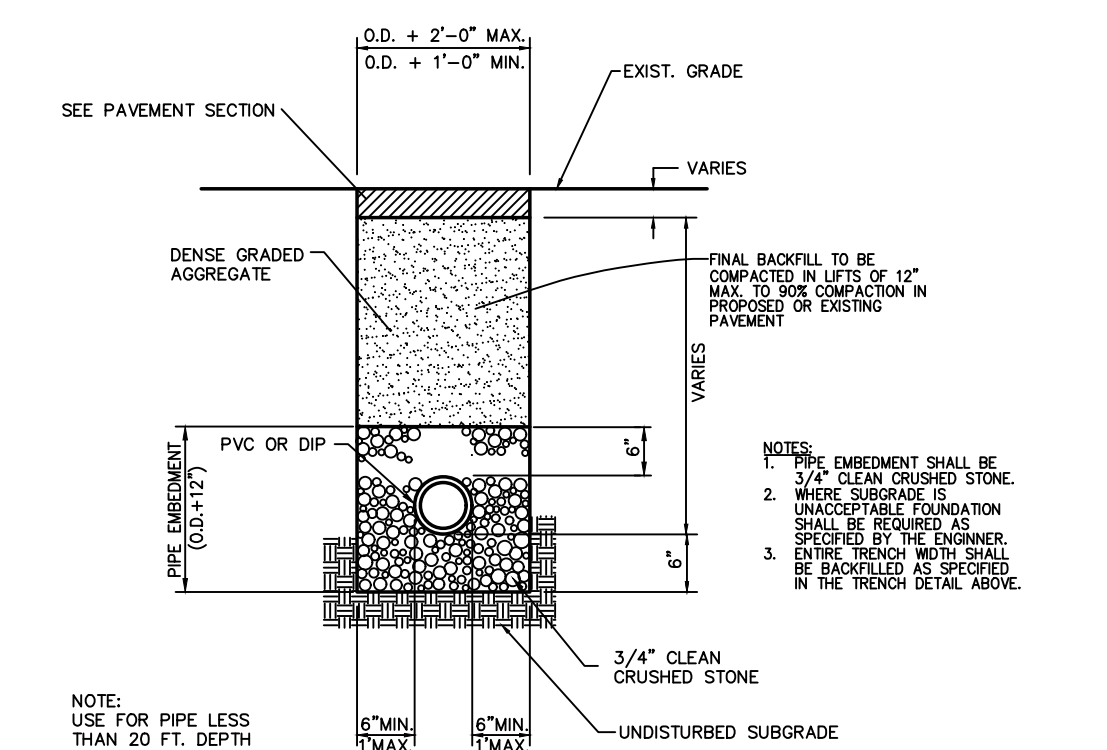


NOTES:
1. PIPE AND FITTINGS SHALL MEET ASTM A304 (SDR 35) AS MANUFACTURED BY CERTAINTED CORP. (215)341-7000, OR EQUIVALENT.

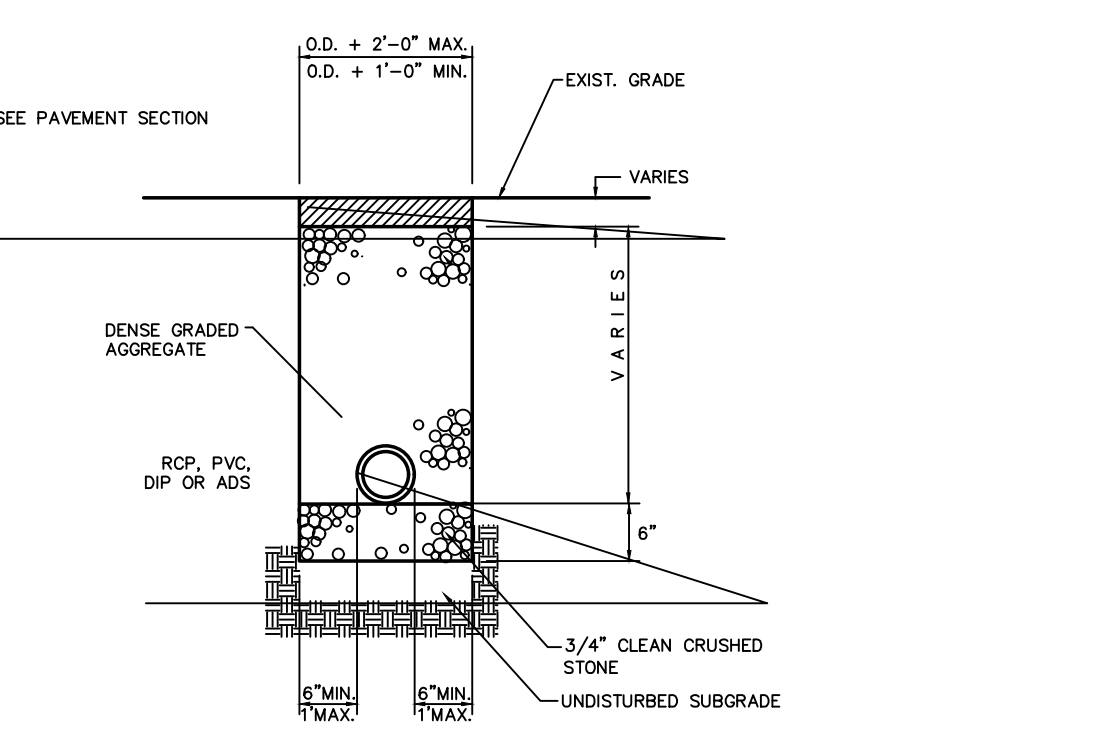
SANITARY CLEANOUT DETAIL
N.T.S.



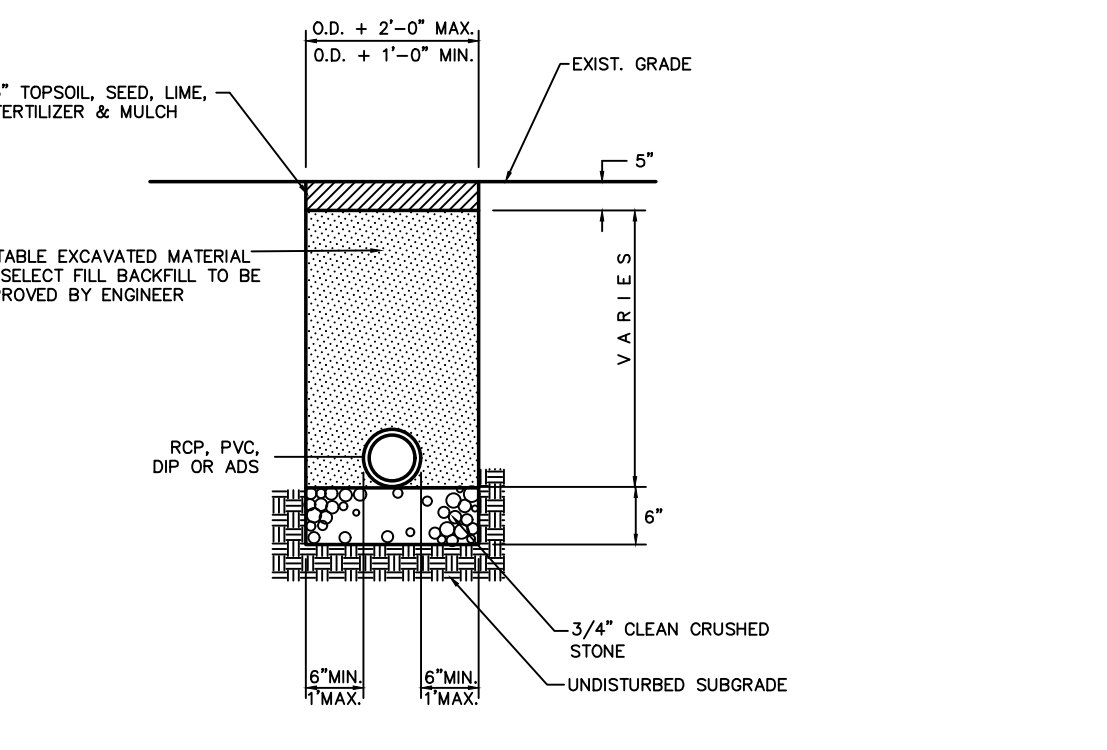
SANITARY SEWER TRENCH: OFF-ROAD
NOT TO SCALE



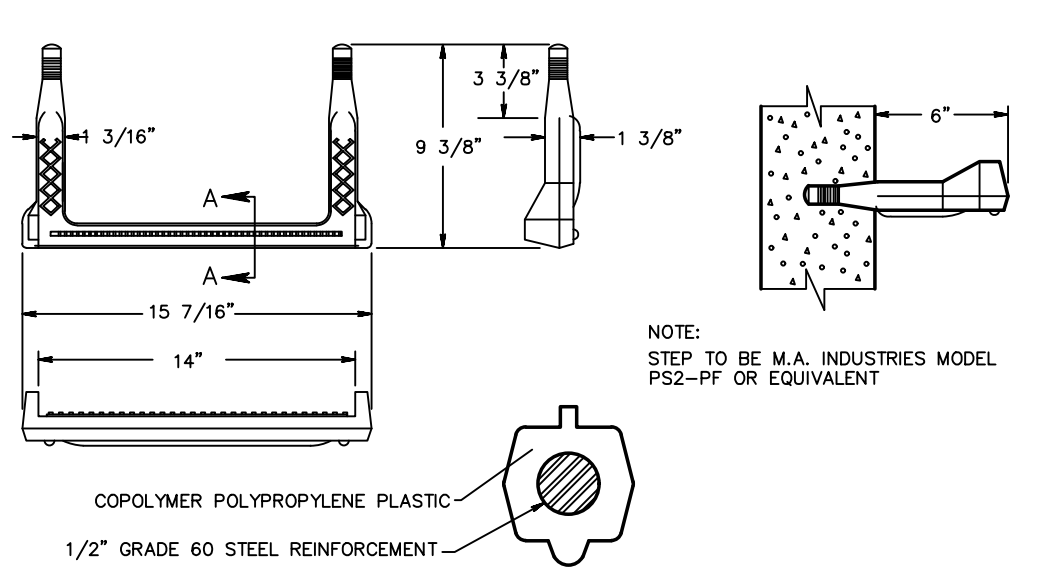
SANITARY SEWER TRENCH: PAVEMENT AND SIDEWALK AREAS
NOT TO SCALE



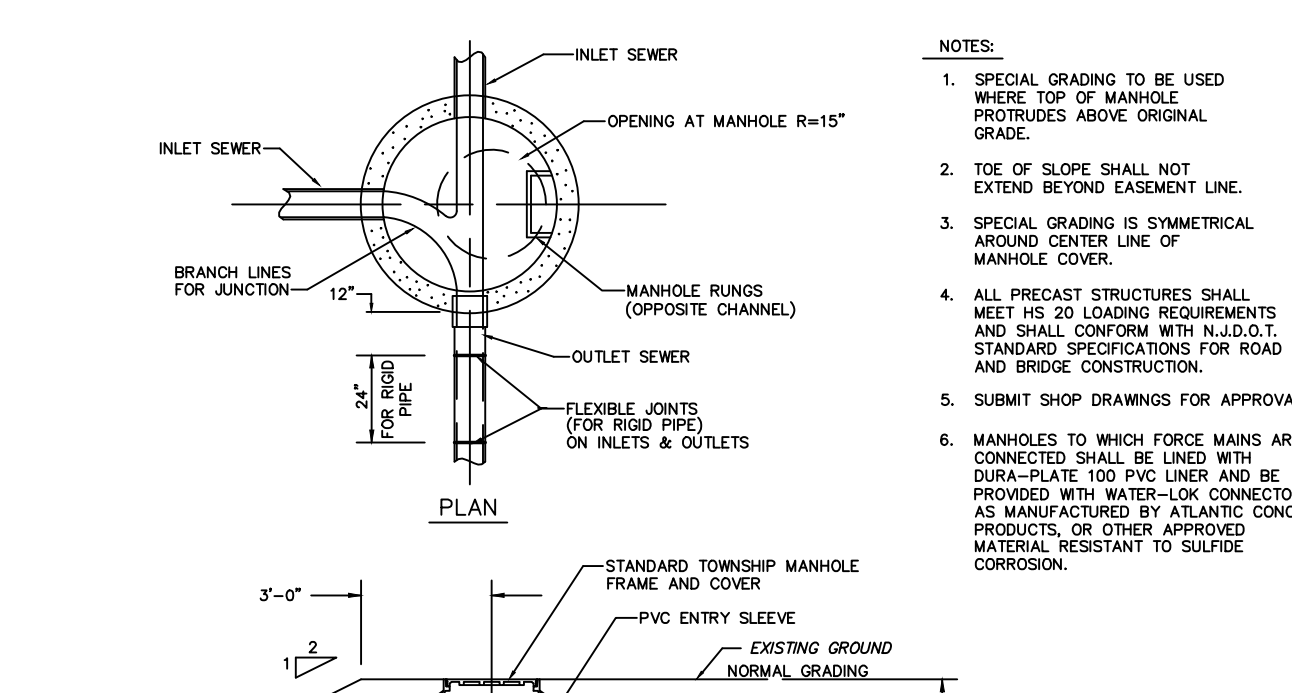
STORM SEWER TRENCH: PAVEMENT AND SIDEWALK
NOT TO SCALE



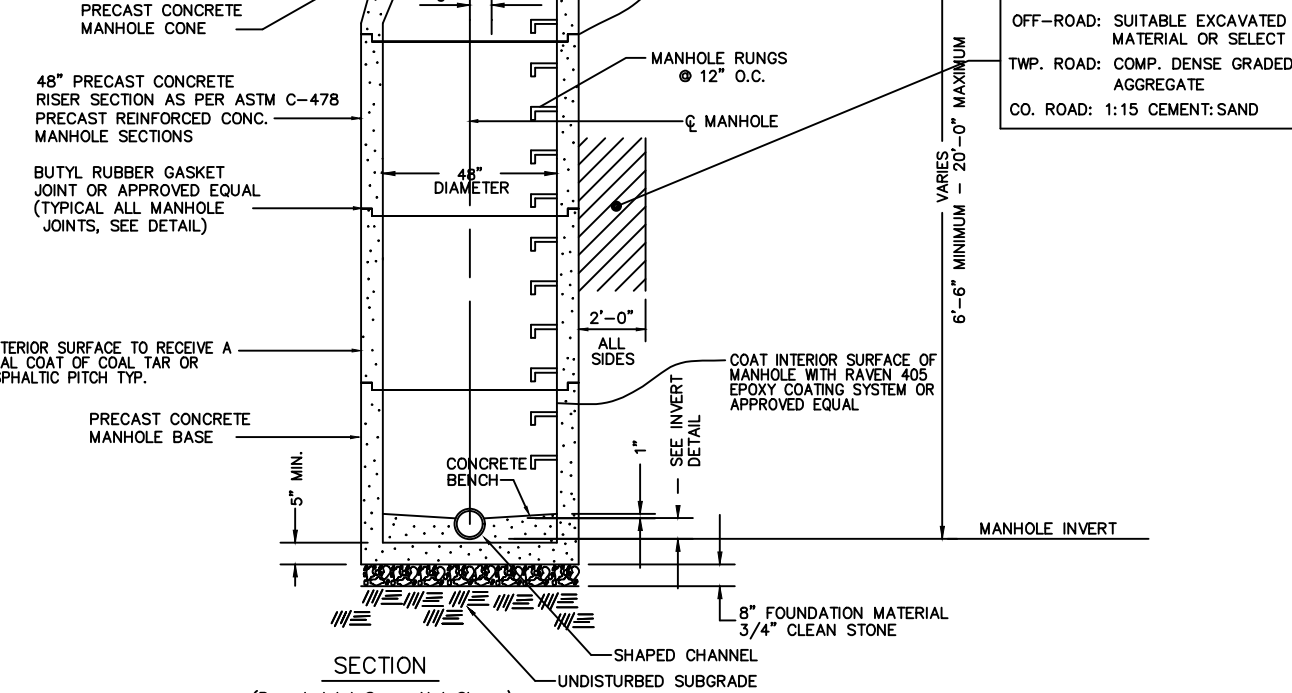
STORM SEWER TRENCH: OFF-ROAD
NOT TO SCALE



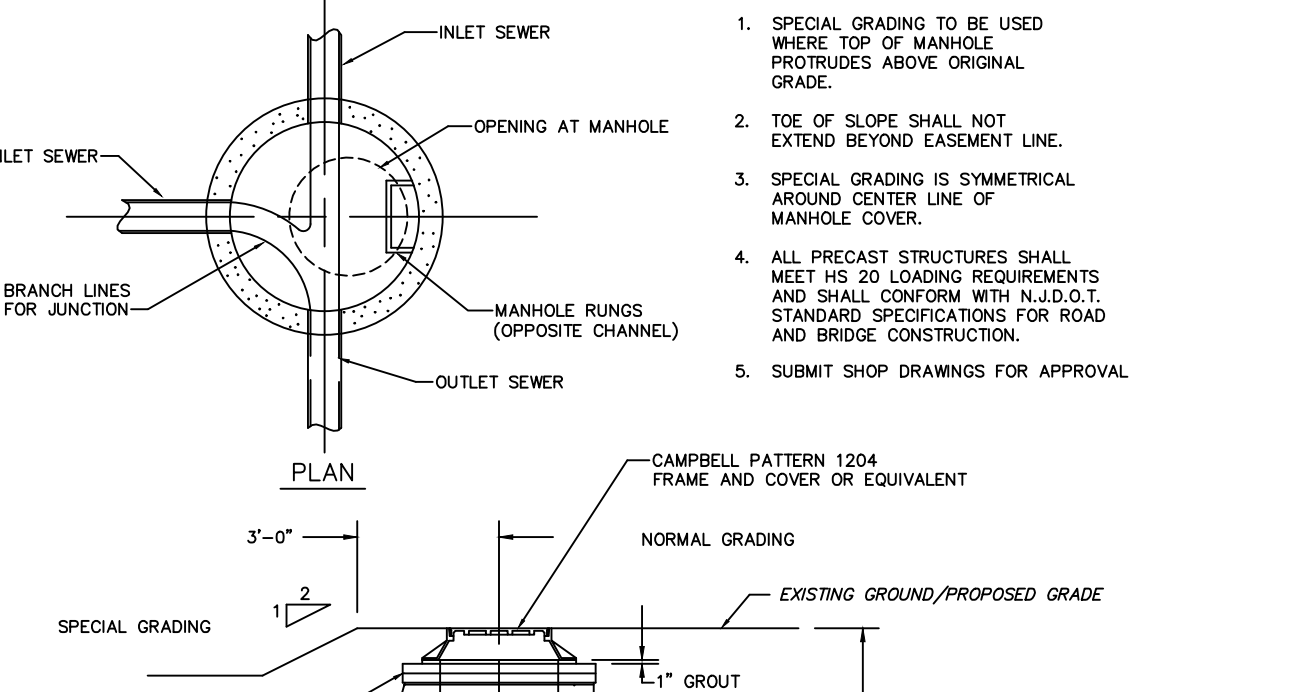
LADDER RUNG DETAIL
NOT TO SCALE



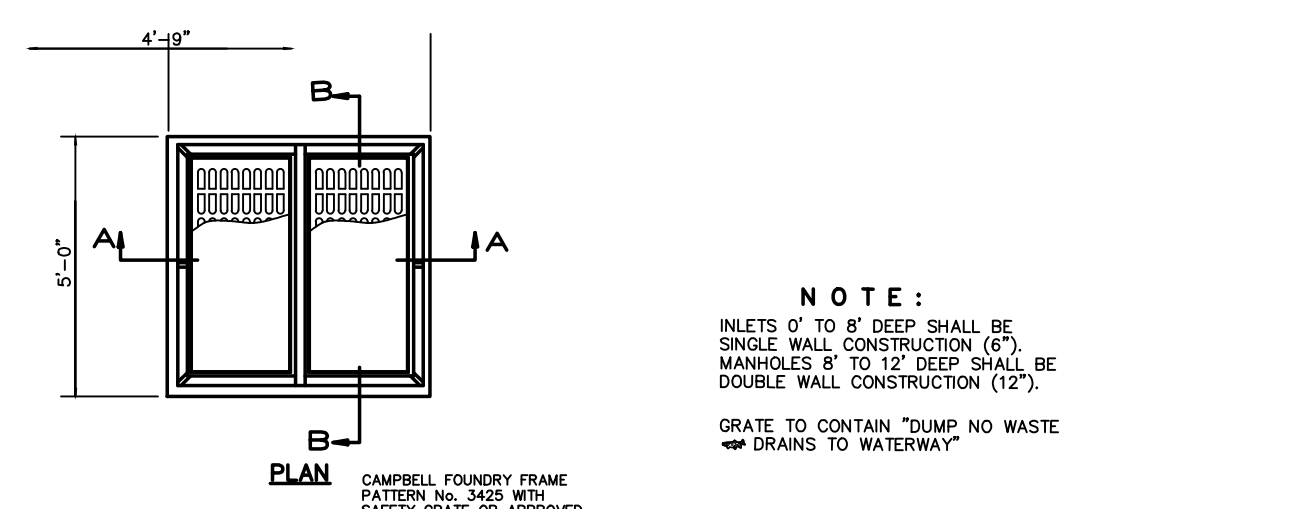
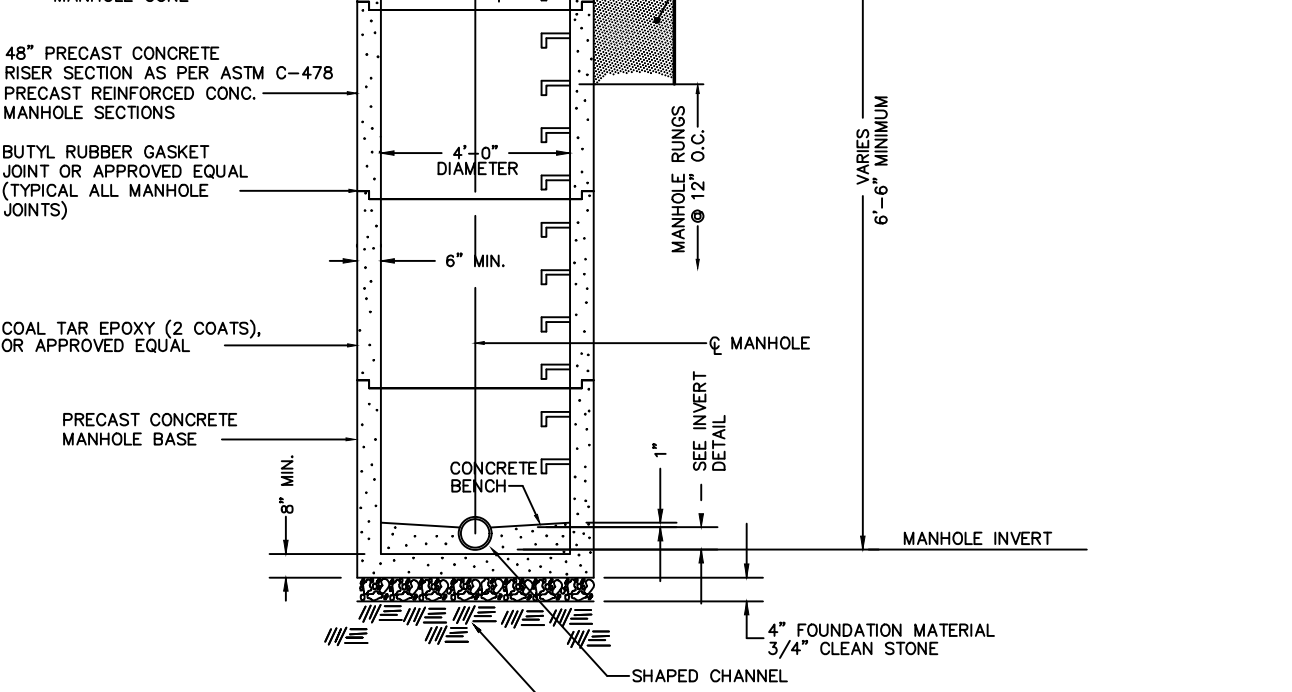
STANDARD SANITARY PRECAST MANHOLE
N.T.S.



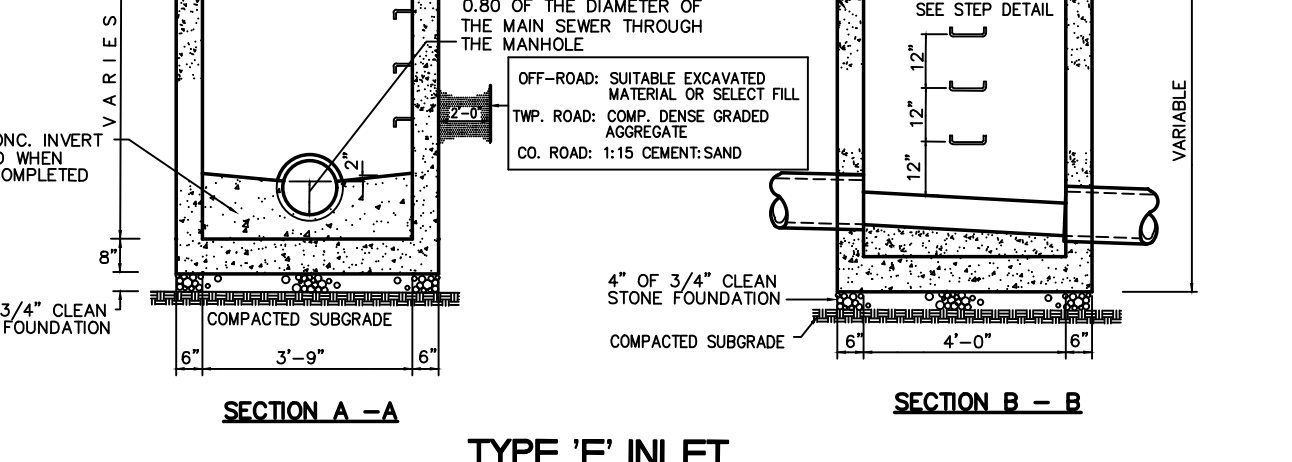
STANDARD PRECAST STORM SEWER MANHOLE
N.T.S.



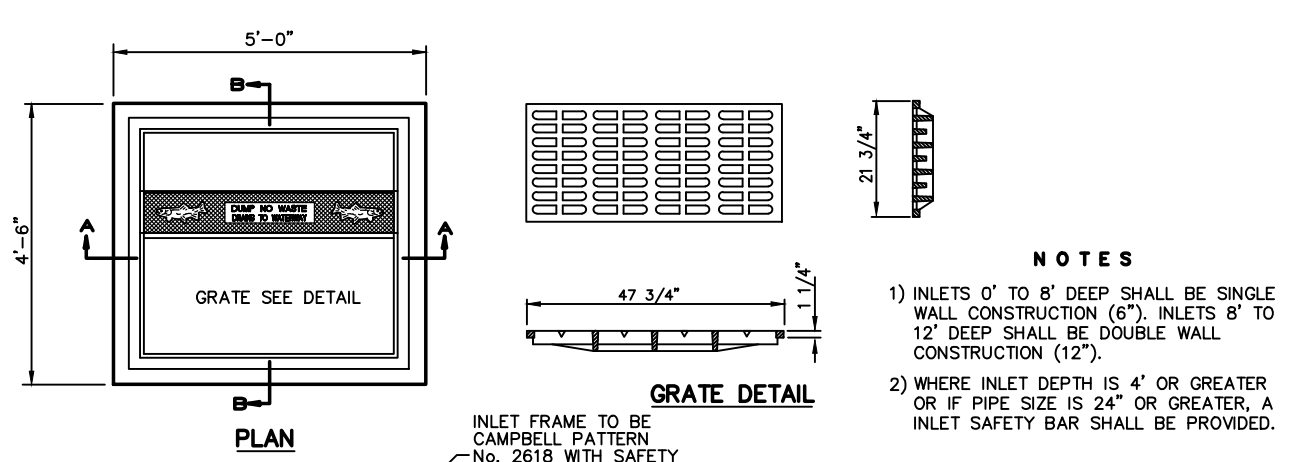
GENERAL STORM SEWER NOTES



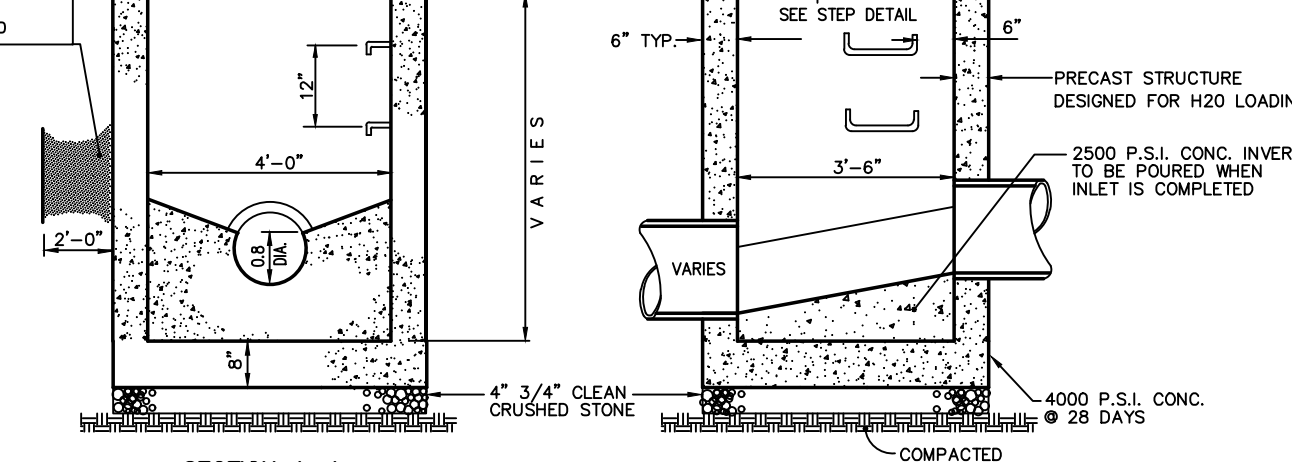
TYPE 'E' INLET
N.T.S.



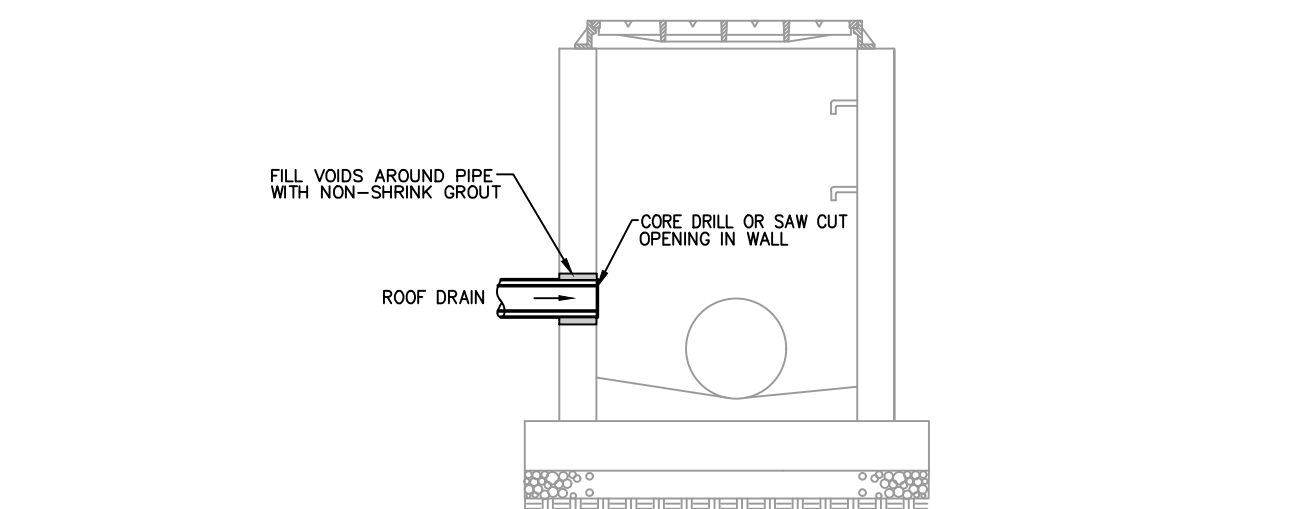
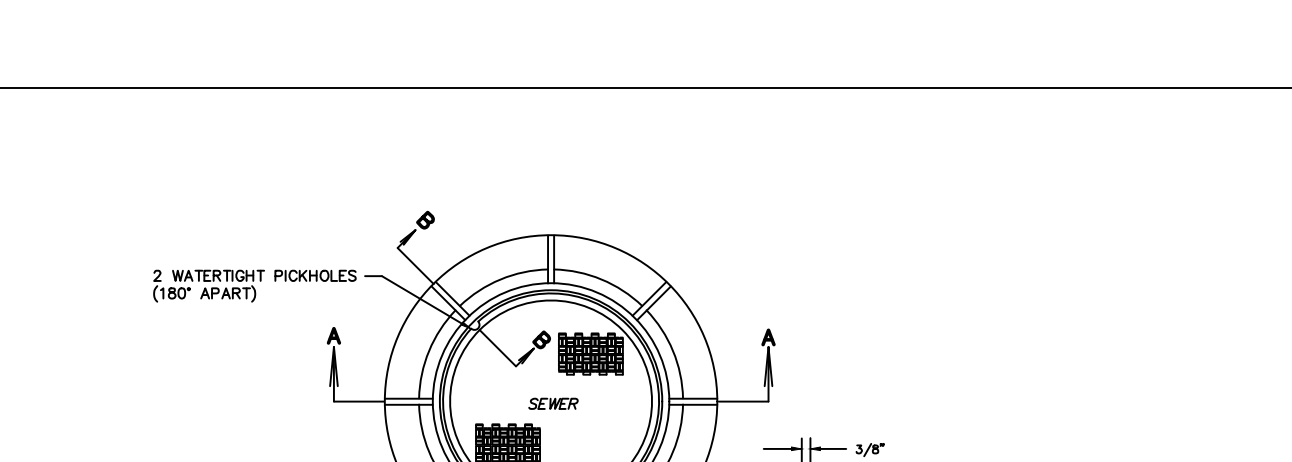
TYPE 'B' INLET
N.T.S.



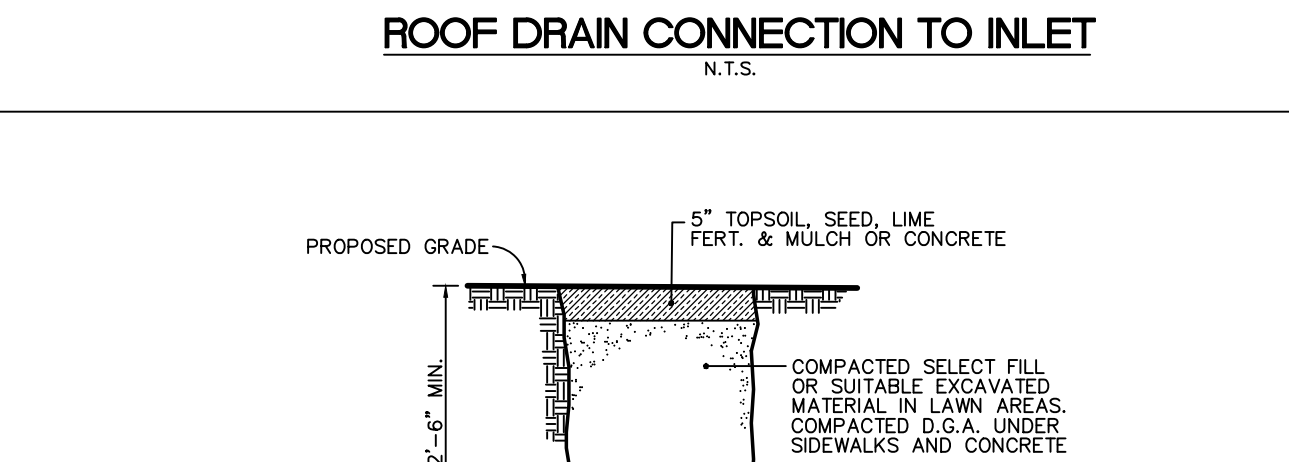
TYPE 'A' INLET
N.T.S.



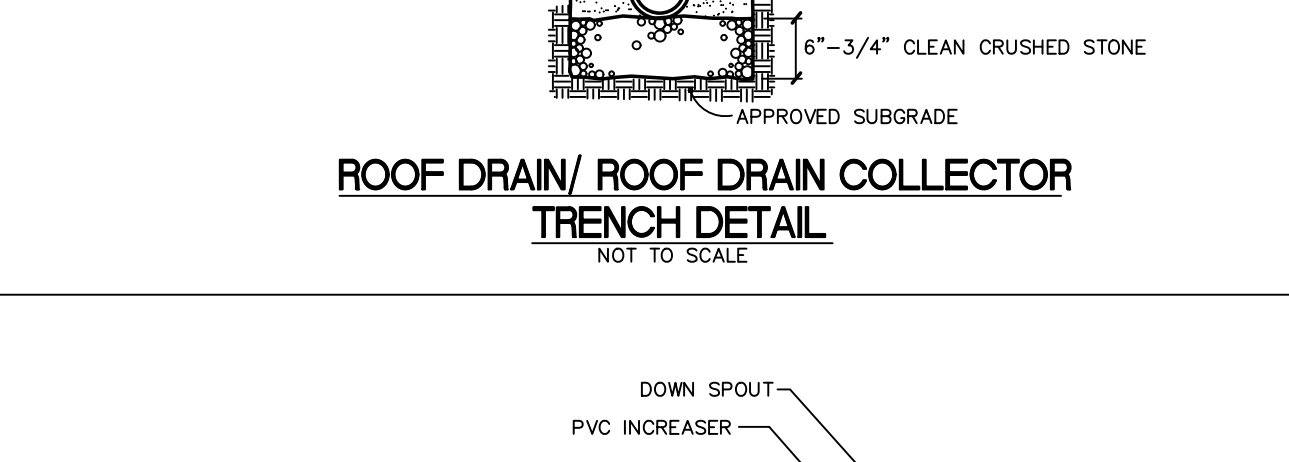
SANITARY MH. FRAME AND COVER
N.T.S.



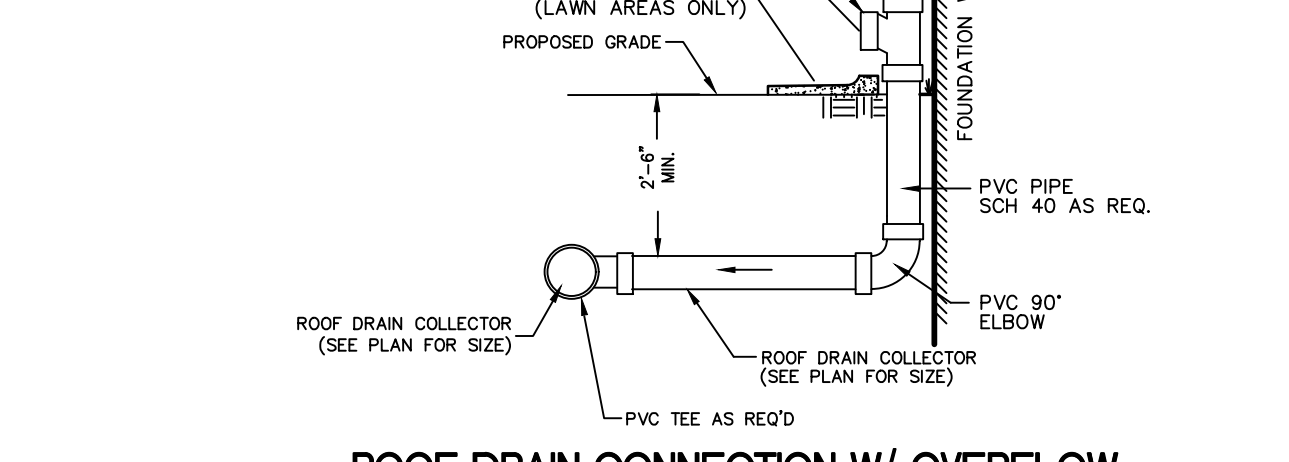
ROOF DRAIN CONNECTION TO INLET
N.T.S.



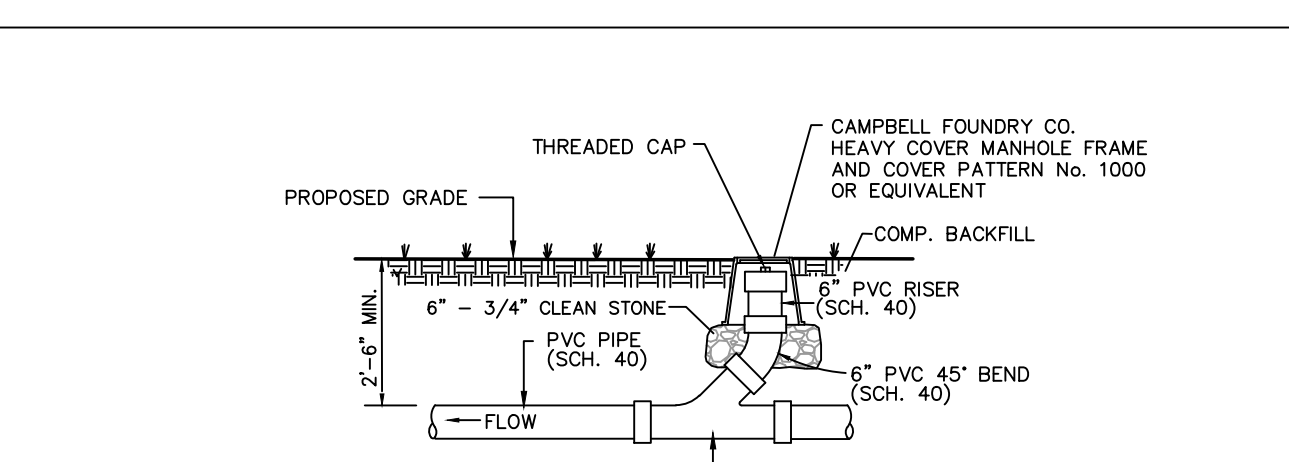
ROOF DRAIN/ ROOF DRAIN COLLECTOR TRENCH DETAIL
NOT TO SCALE



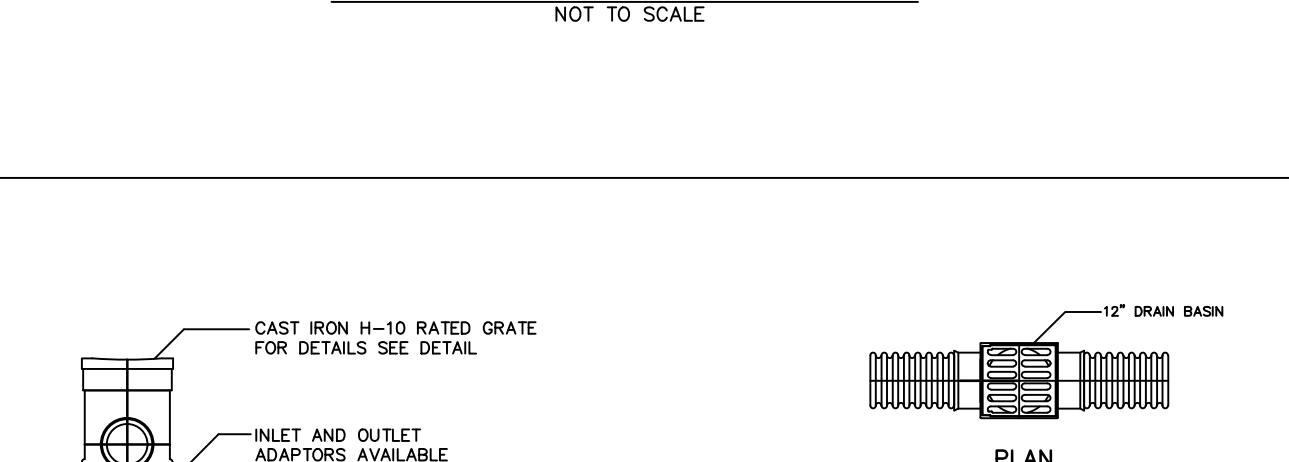
ROOF DRAIN CONNECTION W/ OVERFLOW
NOT TO SCALE



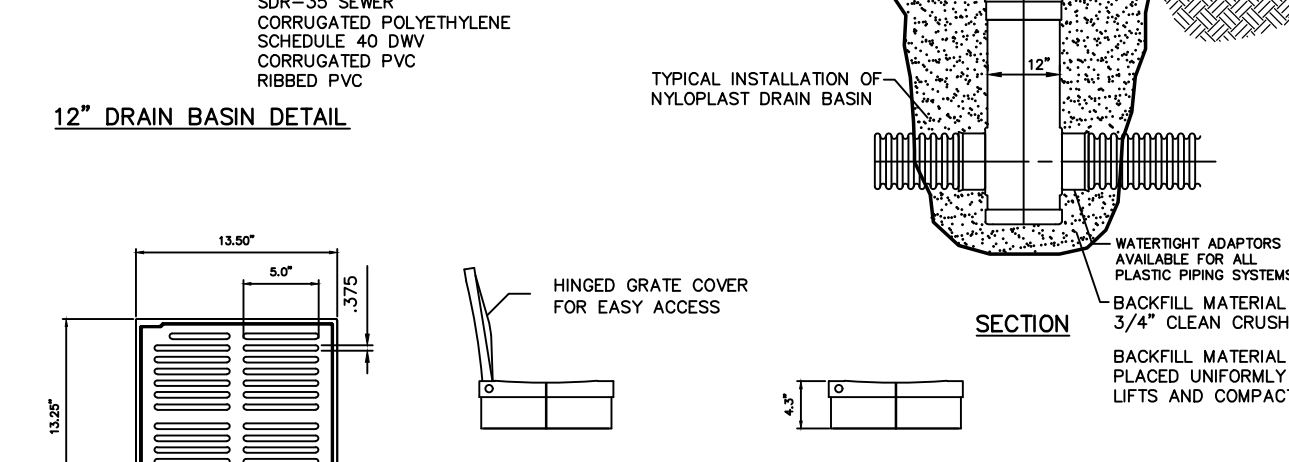
ROOF DRAIN CLEANOUT DETAIL
NOT TO SCALE



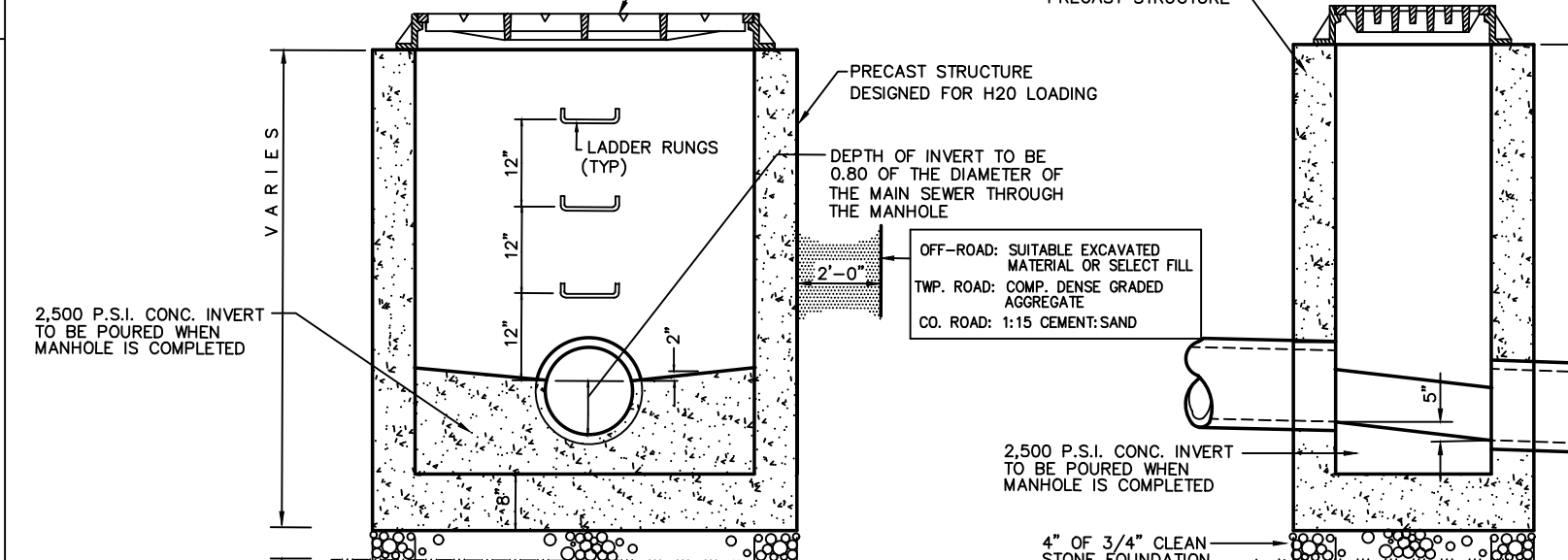
12' DRAIN BASIN DETAIL
NO SCALE



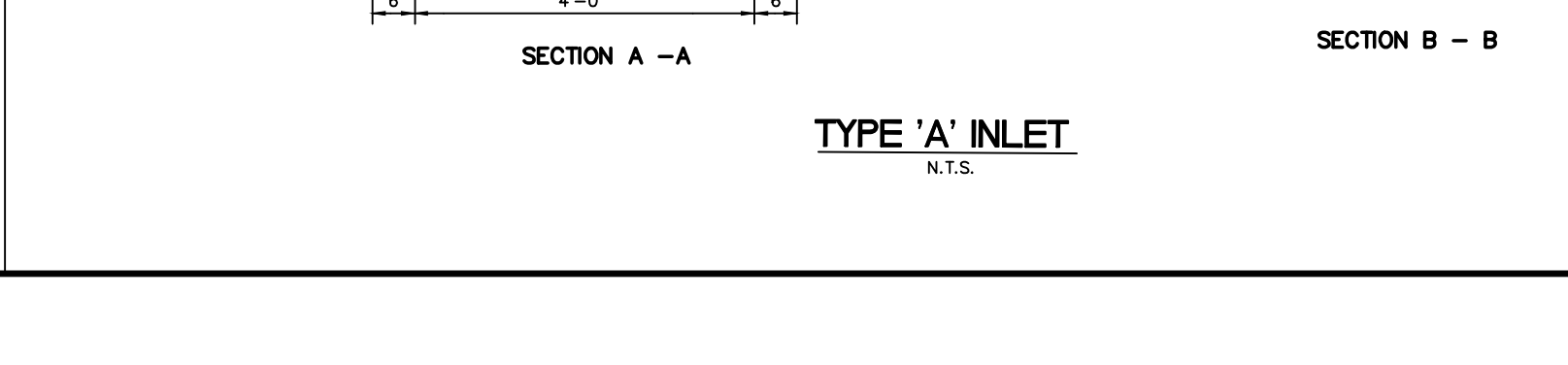
GRATE DETAIL



12' DRAIN BASIN DETAIL
NO SCALE



TYPE 'A' INLET
N.T.S.



TYPE 'A' INLET
N.T.S.

DATE:	MAY 20, 2022
SCALE:	AS NOTED
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB

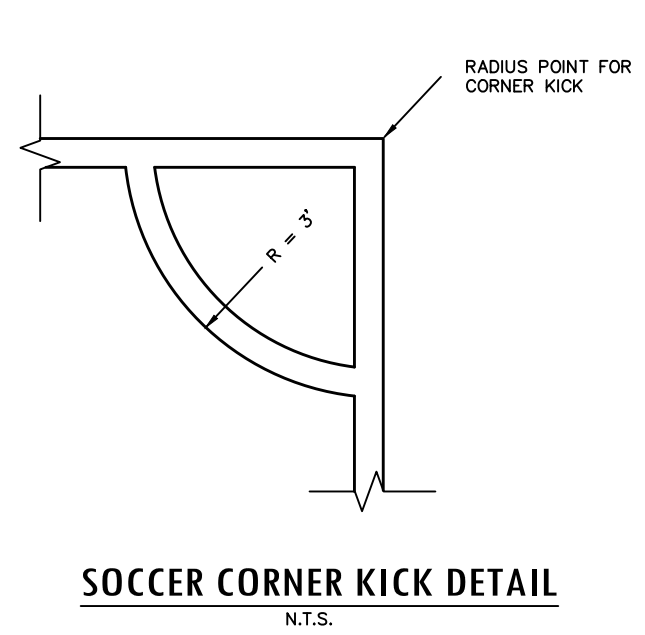
JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246E052258005

DATE: 5/20/22

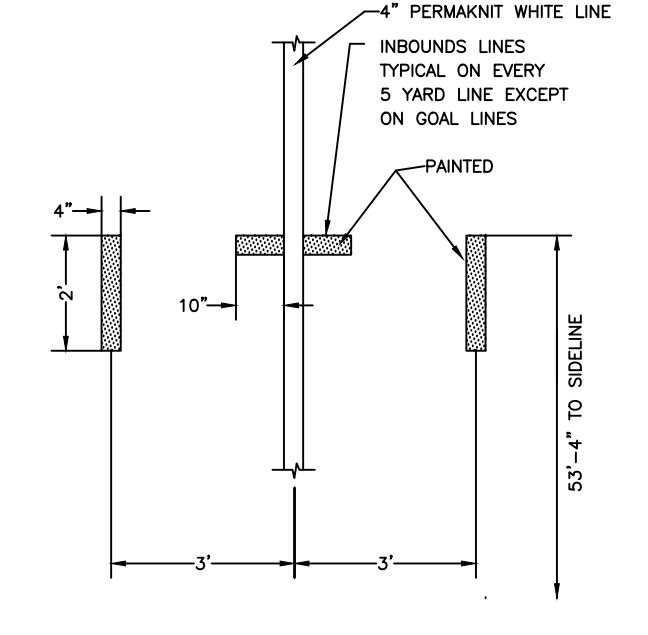
Van Cleaf
ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
4 AAA DRIVE SUITE 100 HANDELIN, NJ 08061
WWW.VANCLEEFENGINEERING.COM
PHONE: 609.689.1100
CERT. OF AUTHORIZATION NO. 246A28193200

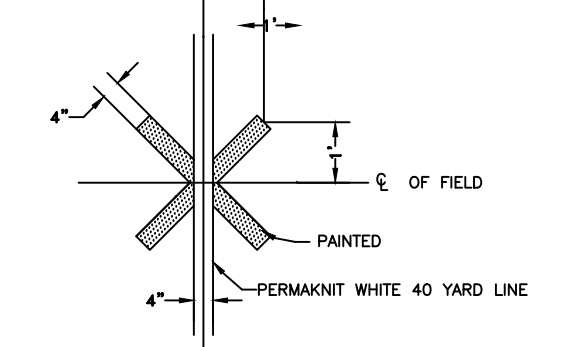
CONSTRUCTION DETAILS
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY



SOCCER CORNER KICK DETAIL
N.T.S.

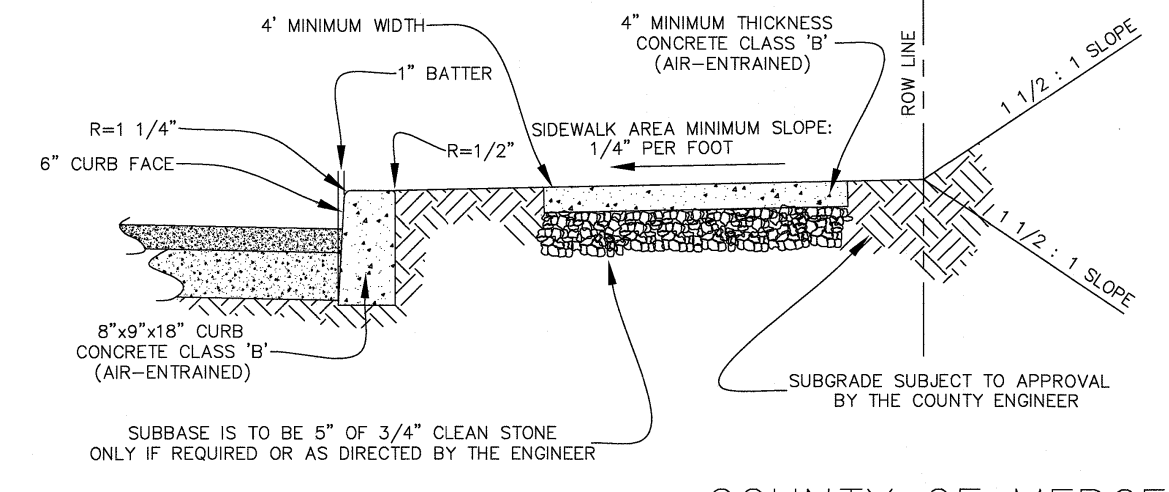


3 INBOUND LINE DETAIL
N.T.S.



2 KICK-OFF MARKER
N.T.S.

NOTE: 1/2" EXPANSION JOINTS OF CELLULAR COMPRESSION MATERIAL TO BE PLACED AT 20' INTERVALS AND 1/4" PREMIXED EXPANSION JOINTS TO BE PLACED LONGITUDINALLY ADJACENT TO ALL ADJUTING CONCRETE STRUCTURES AS THE ENGINEER MAY DIRECT. CONSTRUCTION JOINTS TO BE PROVIDED EVERY 30' ALTERNATING WITH EXPANSION JOINTS.



REVISION: 2.04.14 CLASS 30 CONCRETE PER: GREG SANDOZKY, COUNTY ENGINEER
TYPICAL SECTION OF CURB & SIDEWALK DETAIL SCALE: N.T.S.

8'X9'X18' MERCER COUNTY CONCRETE CURB
NOT TO SCALE

COUNTY OF MERCER
DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE
DIVISION OF ENGINEERING
GREGORY SANDOZKY, P.E. P.L.S. COUNTY ENGINEER
PROFESSIONAL ENGINEER & LAND SURVEYOR
NEW JERSEY LICENSE NO. 36750
DRAWN BY: MIKE WILLIAMSON

TURF CONSTRUCTION NOTES

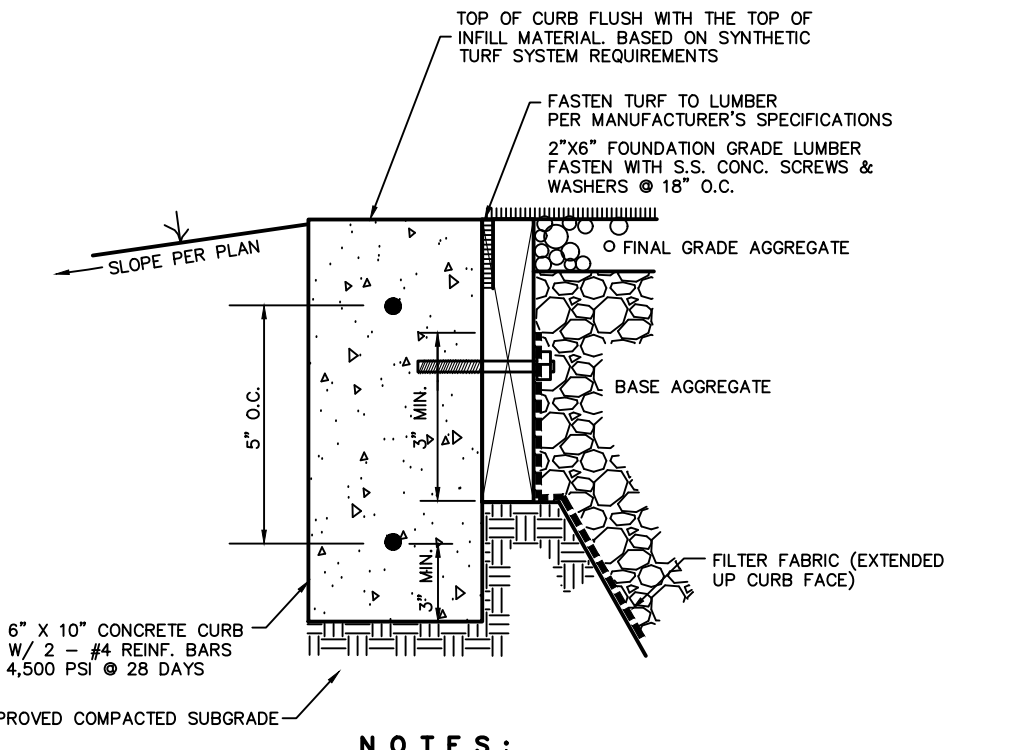
1. ALL SYNTHETIC TURF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE SYNTHETIC TURF COUNCIL (STC), AMERICAN SPORTS BUILDERS ASSOCIATION (ASBA) AND THE NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS (NATIONAL FEDERATION), AS AMENDED.
2. ALL FIELD EVENT AND LINE MARKING DIMENSIONS TO BE CERTIFIED IN ACCORDANCE WITH SPECIFICATIONS ISSUED BY THE APPROPRIATE GOVERNING BODY.
3. STONE TO BE USED FOR STORMWATER MANAGEMENT SECTION OF INFIELD SHALL HAVE A VOID RATIO OF 0.4. SELECTED STONE SHALL BE APPROVED THE SYNTHETIC TURF SYSTEM MANUFACTURER FOR USE BENEATH THE TURF BASE STONE.
4. SYNTHETIC TURF INSTALLER SHALL PROVIDE A LETTER OF ACCEPTANCE OF THE INFIELD SUB GRADE INSTALLATION PRIOR TO PROCEEDING WITH SURFACING INSTALLATION.
5. ALL DIP STORM PIPE SHALL BE CLASS 52. ALL H.D.P.E. SHALL HAVE WATER TIGHT JOINTS.
6. ALL SOIL SHALL BE CLEANED FROM PAVED SURFACES AT THE END OF EACH WORK DAY.

FIELD LAYOUT NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
2. ALL LINE WORK IS TO BE LAID OUT WITH A TOLERANCE OF 1/4 INCH.
3. ALL YARDLINES SHALL BE 4 INCH WHITE PERMANENT TURF. REFER TO DETAIL 1.
4. A 4 INCH WHITE PERMANENT TURF LINE WILL SURROUND THE ENTIRE PLAYING FIELD. REFER TO DETAIL 1.
5. 24 INCH SHORT YARDLINE EXTENSIONS, 4 INCHES FROM THE SIDELINES SHALL BE 4 INCHES WIDE, WHITE PAINTED LINES. REFER TO DETAIL 1.
6. THE COACHING BOX AND TEAM AREA SHALL BE PER NFHS/ISA RULES AND SHALL BE OUTLINED IN 4 INCH WHITE PAINTED TURF. REFER TO PLAN AND DETAIL 5.
7. THE TWO INBOUNDS LINES ARE 53 FEET 4 INCHES FROM THE SIDELINES. INBOUNDS LINES AND SHORT YARDLINE EXTENSIONS SHALL BE 24 INCHES LONG AND 4 INCHES WIDE, PAINTED, WHITE LINES. REFER TO DETAIL 3.
8. THE EXTRA POINT LINES ARE 6 FEET LONG, 4 INCHES WIDE, WHITE PAINTED LINES AT THE CENTERLINE OF THE FIELD AND THE 3 YARDLINE ON EACH END OF THE FIELD. REFER TO PLAN FOR LOCATION.
9. WHITE YARDLINE NUMBERS MEASURING 6 FEET IN HEIGHT AND 4 FEET IN WIDTH WITH THE TOP OF THE NUMBERS 27 FEET FROM THE INBOUND LINES ARE INLAD TURF. REFER TO DETAIL 4.
10. DIRECTIONAL ARROWS POINT TOWARD RESPECTIVE ENDZONES AND ARE WHITE. INLAD TURF AS DIMENSIONED ON DETAIL 4. THERE ARE NO ARROWS ON THE 50 YARDLINE.
11. AN 'X' WILL MARK THE SPOT OF THE KICKOFF AT THE 40 YARDLINE ON EACH END OF THE FIELD AND SHALL BE DIMENSIONED AS PER DETAIL 2. THE 40 YARDLINE IS WHITE PERMANENT TURF AND THE EXTENSIONS TO FORM THE 'X' ARE PAINTED WHITE.
12. A DASHED LIMIT LINE AROUND THE FIELD SHALL BE 8 FEET FROM THE SIDELINES AND SHALL BE 12 INCHES LONG AND 4 INCHES IN WIDTH AT 24 INCH INTERVALS, WHITE IN COLOR AND PAINTED.
13. Pylon LOCATIONS AT THE INTERSECTIONS OF THE GOAL LINES AND THE ENDZONES WITH THE SIDELINES AND THE ENDZONES AND THE EXTENSION OF THE MIDFIELD LINE SHALL BE 4 INCHES BY 4 INCHES. THE PYLONS WILL BE FREE-STANDING, WEIGHTED TYPE.

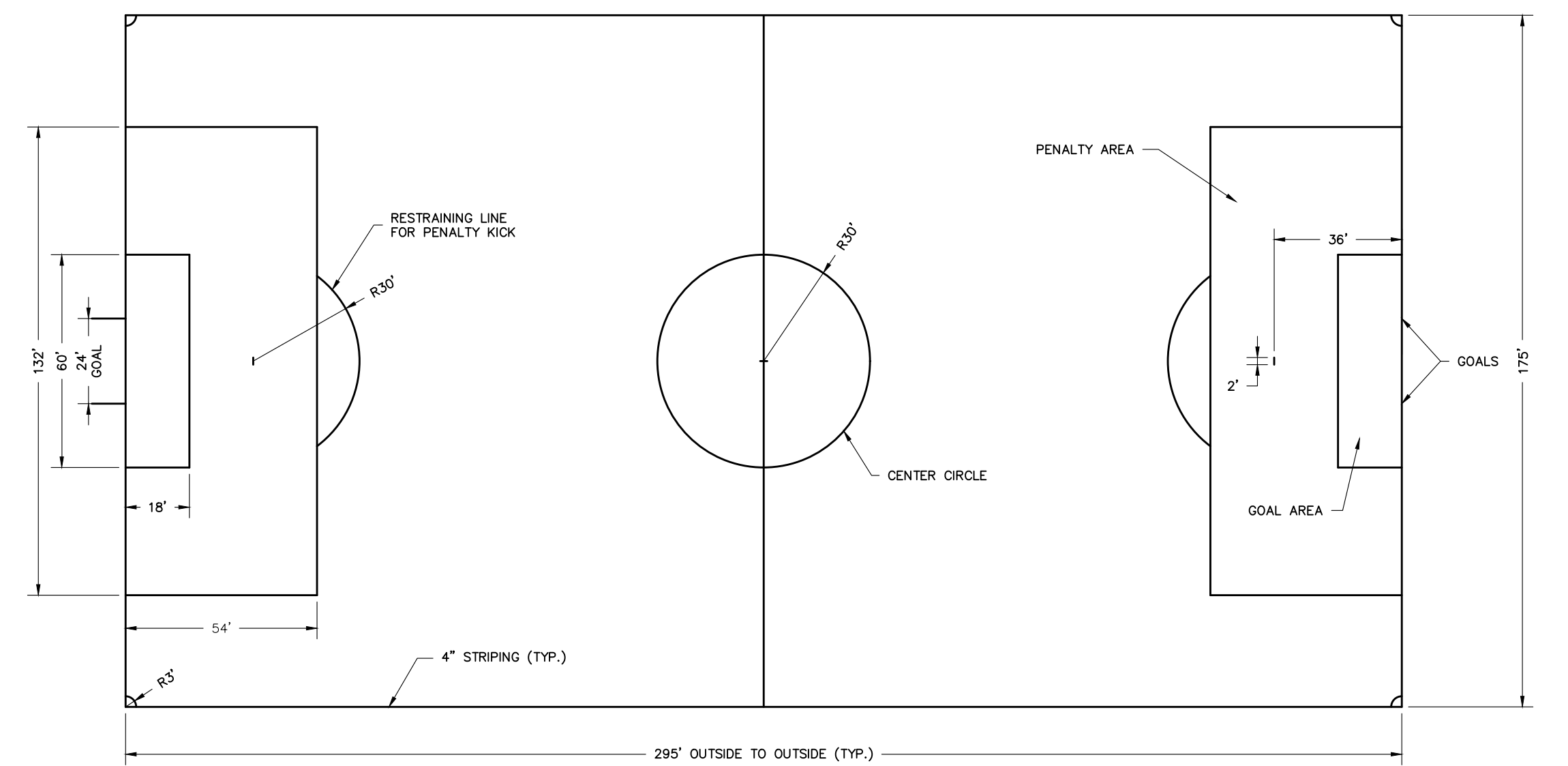
SOCCER LAYOUT NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
2. ALL LINE WORK IS TO BE LAID OUT WITH A TOLERANCE OF 1/4 INCH.
3. THE FIELD WILL BE STRIPPED FOR 3 FIELDS, FOOTBALL AND SOCCER. ALL MARKINGS WILL BE PERMANENT OR INLAD LINES. REFER TO THE FOOTBALL FIELD LAYOUT PLAN ON THIS SHEET.
4. THE FOOTBALL FIELD WILL BE 4 INCH WHITE PERMANENT OR INLAD LINES. REFER TO THE FOOTBALL FIELD LAYOUT.
5. ALL SOCCER LINES ARE 4 INCH YELLOW PERMANENT SYSTEM TURF AS DIMENSIONED ON THE SOCCER LAYOUT PLAN.
6. THE SOCCER GOAL AREA IS 18 FEET BY 60 FEET. REFER TO PLAN FOR LOCATION.
7. THE SOCCER PENALTY AREA IS 54 FEET BY 132 FEET. REFER TO PLAN FOR LOCATION.
8. THE PENALTY MARK IS A 2 FOOT LINE, 4 INCHES WIDE, 36 FEET FROM THE GOAL LINE AND CENTERED ON THE GOAL. THE RESTRAINING LINE FOR PENALTY KICKS IS AN ARC 30 FEET FROM THE MARK OUTSIDE THE PENALTY AREA. REFER TO PLAN FOR LOCATION.
9. THE HALFWAY LINE FOR THE SOCCER FIELD IS A 4 INCH YELLOW LINE WITH A CIRCLE 0 FEET IN DIAMETER IN THE CENTER OF THE FIELD. REFER TO PLAN FOR LOCATION. THE 50 YARD LINE OF THE FOOTBALL FIELD WILL BE WHITE AS SHOWN ON THE FOOTBALL LAYOUT PLAN AND THE SOCCER LINE WILL EXTEND BEYOND THE FOOTBALL SIDELINE.
10. THE CORNERS OF THE SOCCER FIELD SHALL HAVE A 3 FOOT RADIUS IN YELLOW DESIGNATING THE CORNER KICK AREA. REFER TO CORNER KICK DETAIL.

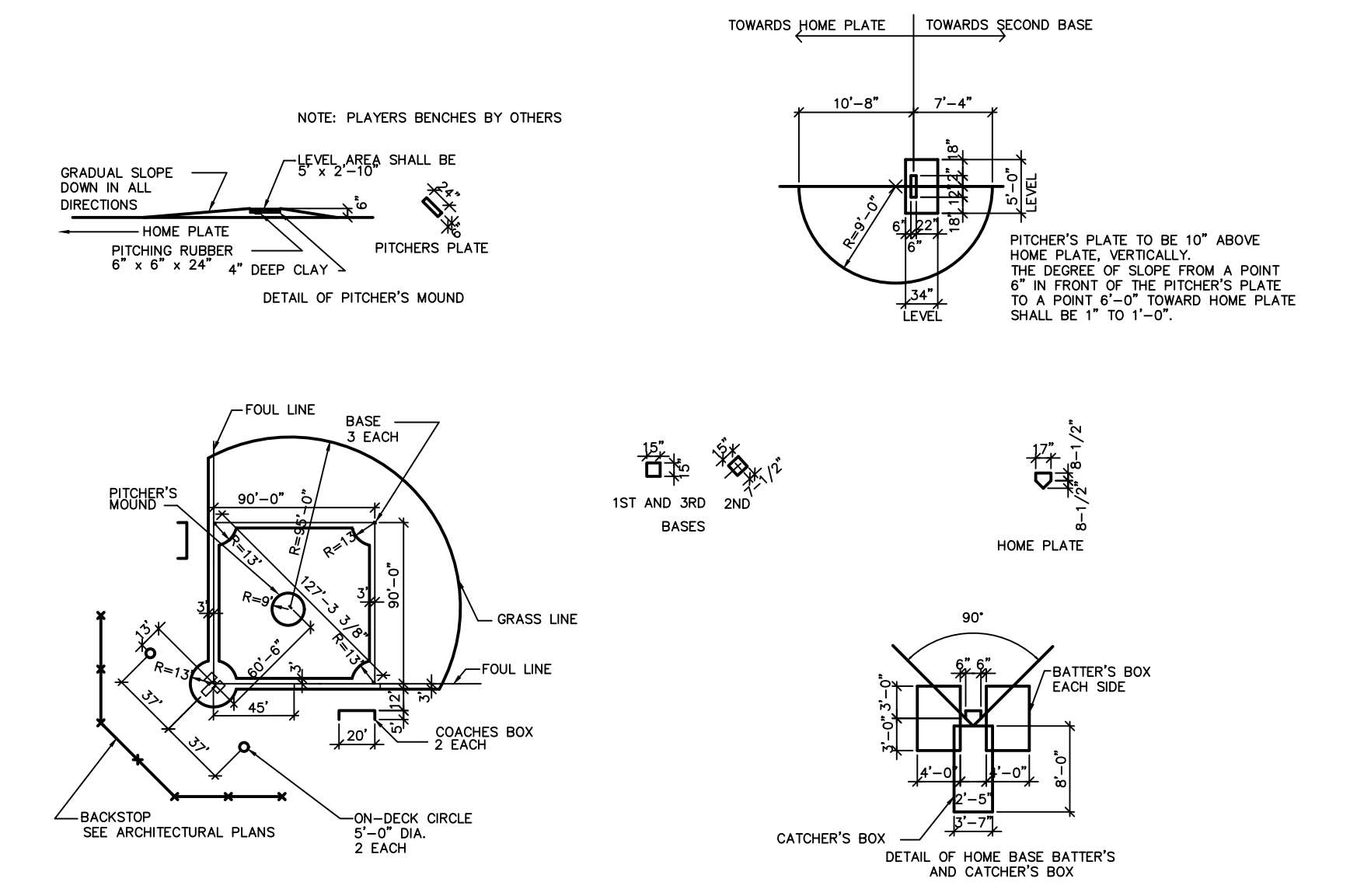


TURF EDGE DETAIL
N.T.S.

- NOTES:
- 1.) ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE.
 - 2.) CONCRETE CURB SHALL BE PLACED ALONG THE SYNTHETIC TURF INFIELD.



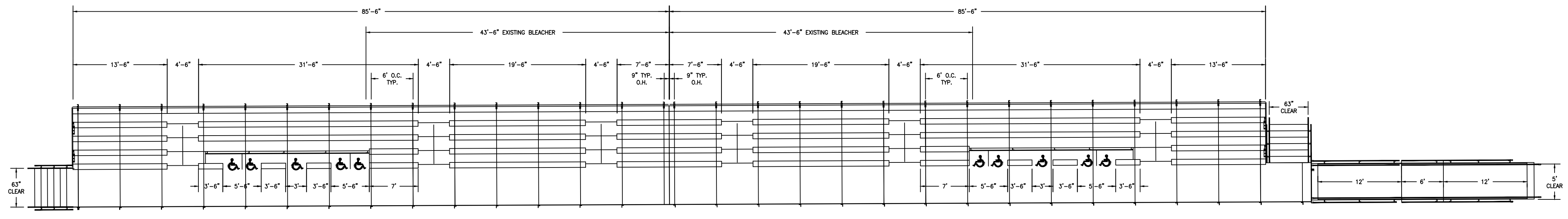
SOCCER LAYOUT PLAN
SCALE: N.T.S.



FIELD LAYOUT NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
2. ALL LINE WORK IS TO BE LAID OUT WITH A TOLERANCE OF 1/4 INCH.
3. FOOTBALL & BASEBALL FIELD LAYOUT SHALL BE COMPLIANT WITH THE LATEST VERSION OF STATE HIGH SCHOOL ASSOCIATIONS' RULE BOOK.

BASEBALL FIELD DETAIL
N.T.S.



TRACK BLEACHER DETAIL
SCALE: 1/8" = 1'-0"

ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSION OR COLORIZED INK SHALL BE THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, OR SUPPLEMENTARY WORK WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.



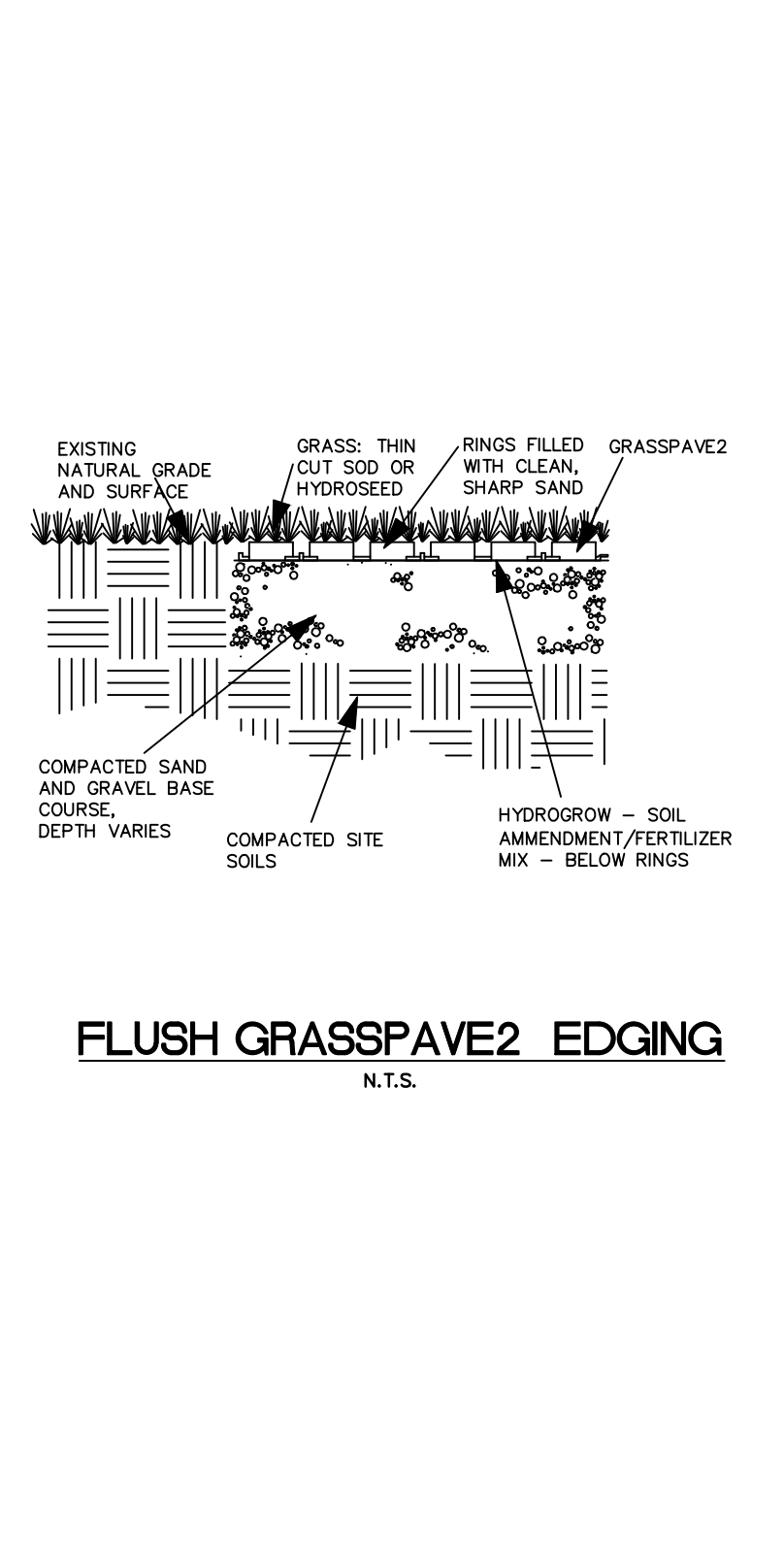
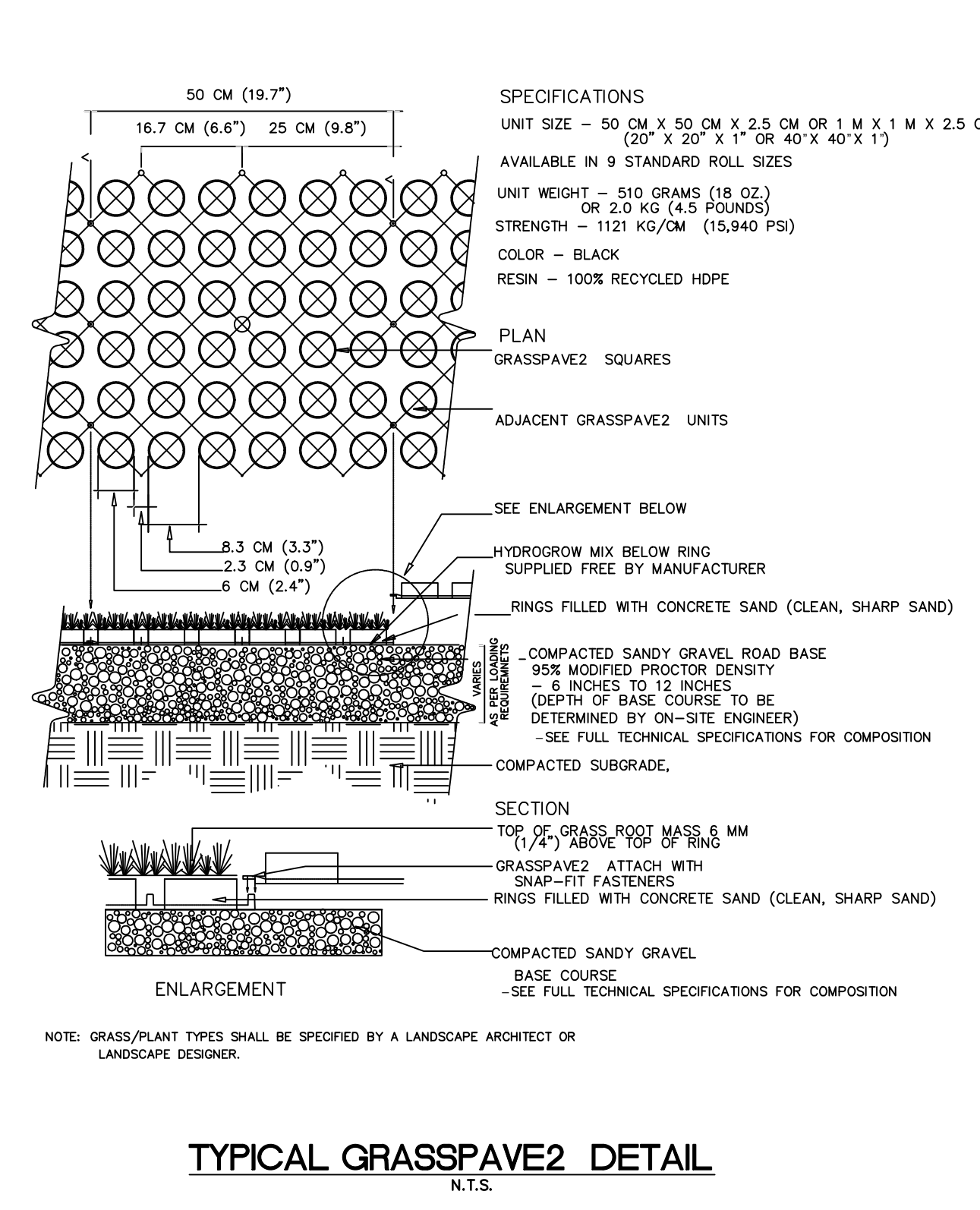
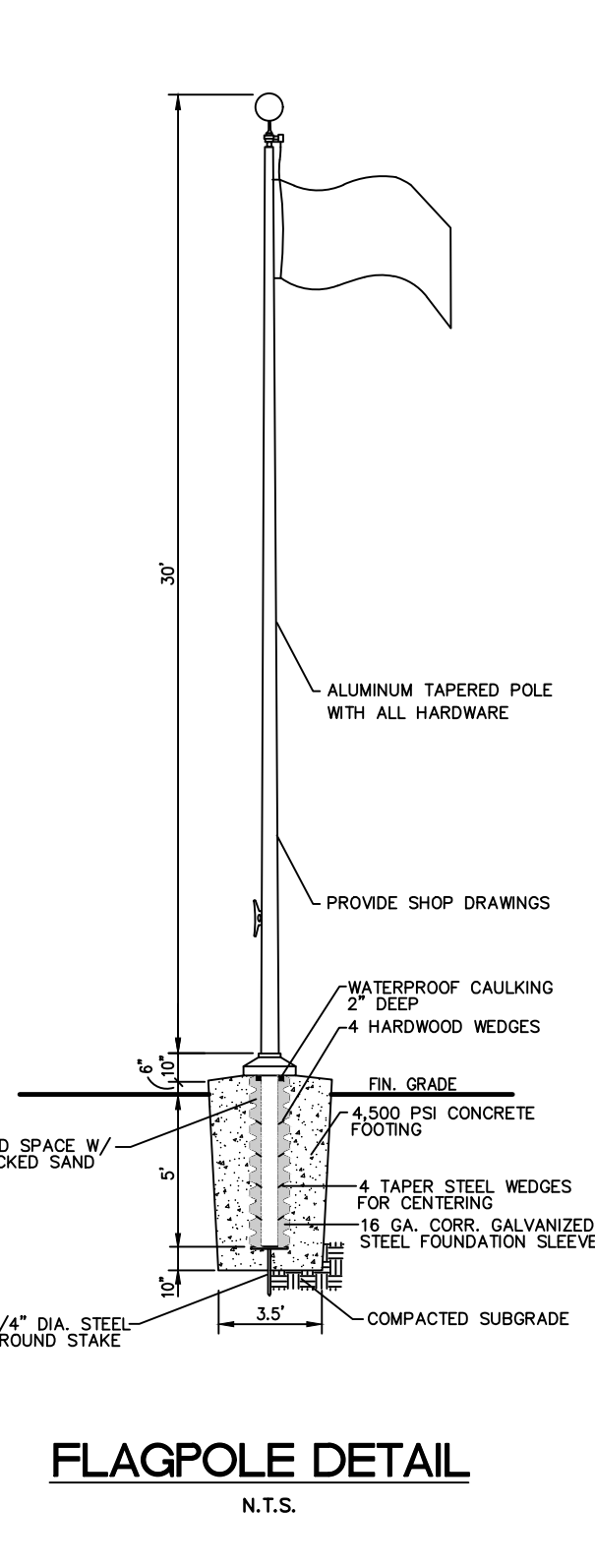
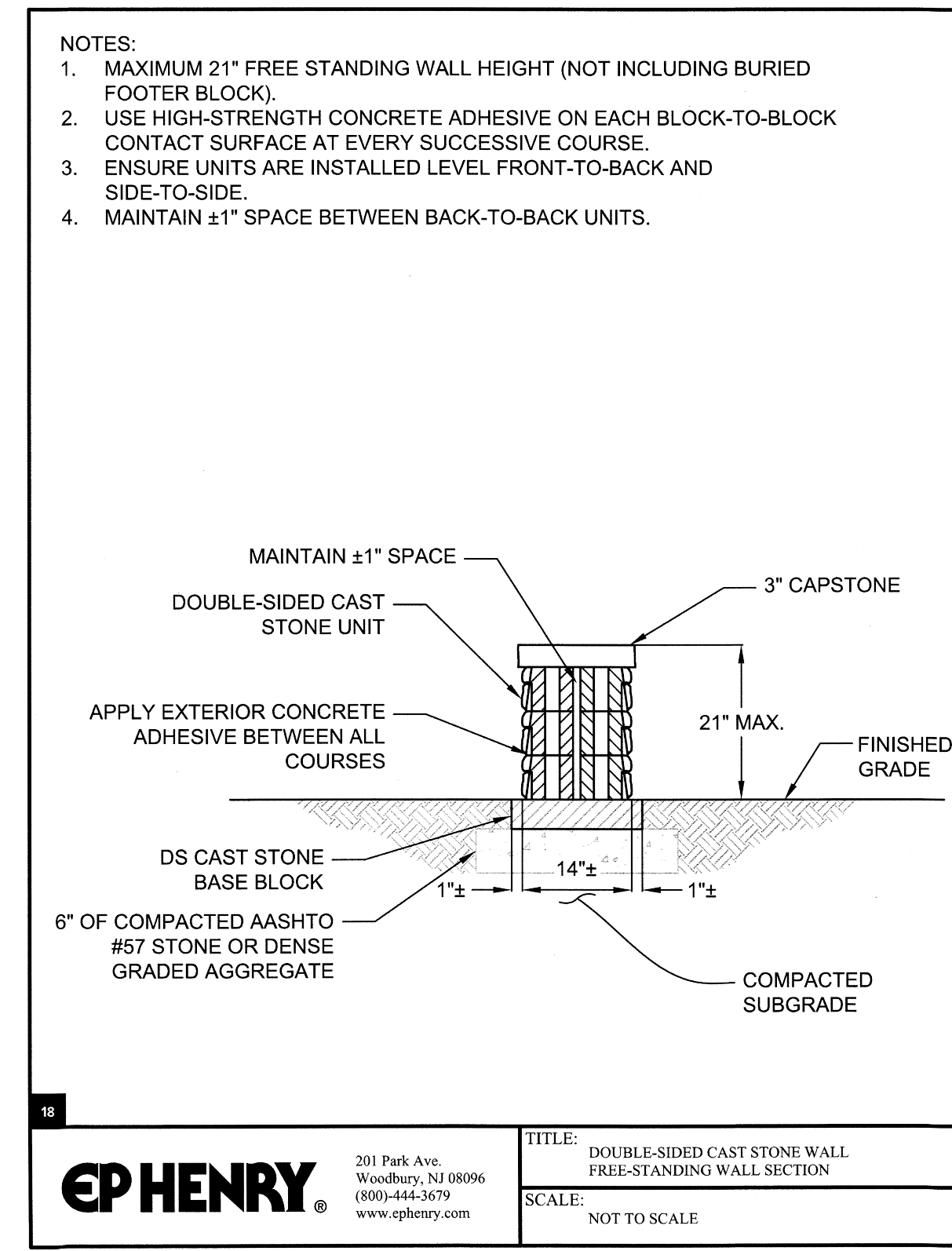
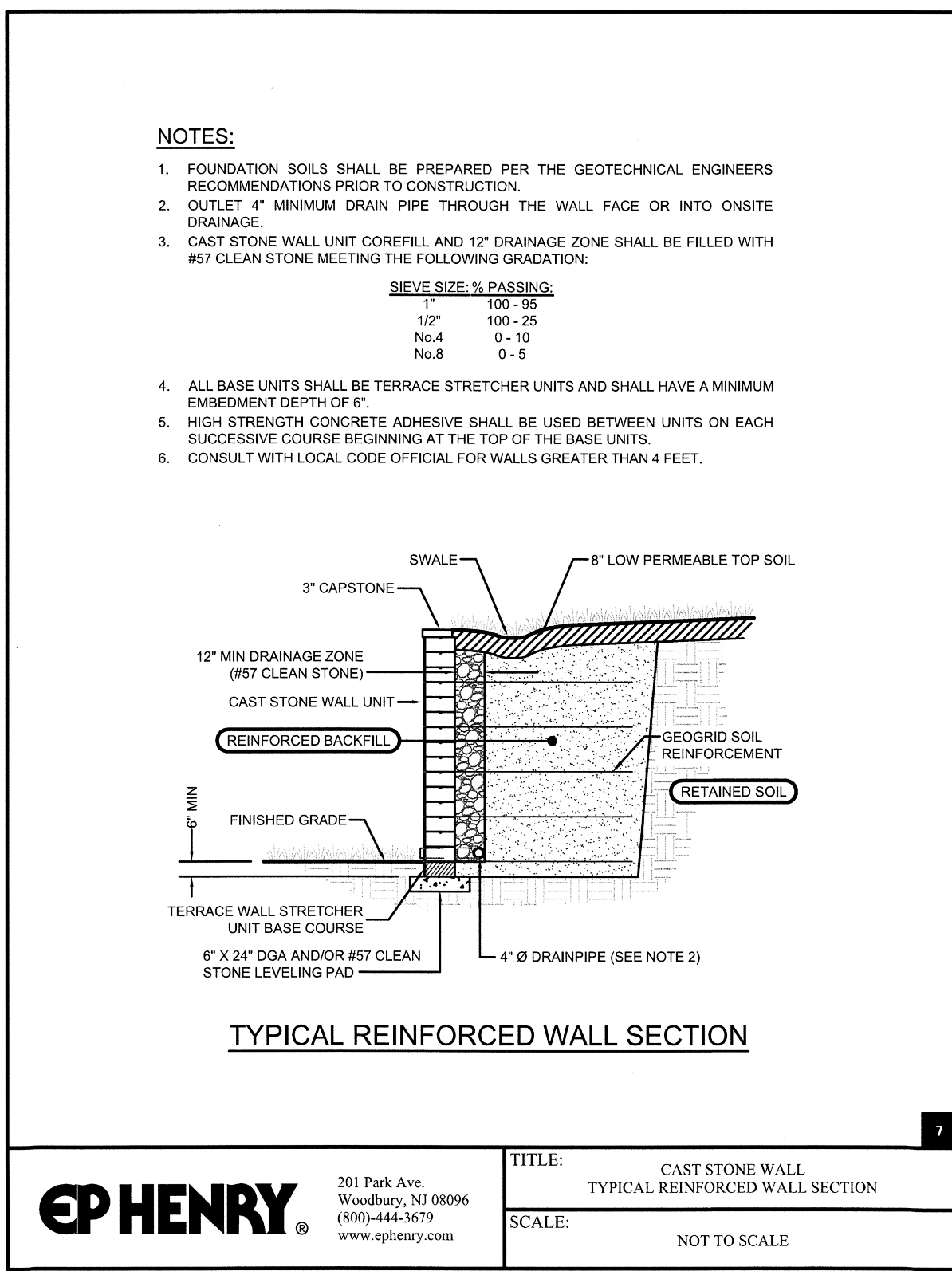
TO LOCATE UNDERGROUND UTILITIES BEFORE CONSTRUCTION TO THE BLADE OR THREE (3) WORKDAYS NOTICE TO THE OWNER IS REQUIRED.
IT'S THE EASY WAY!
Dig Safely.
Call before you dig.
1-888-375-1000

DATE:	MAY 20, 2022
SCALE:	AS NOTED
DESIGNED BY:	JAB
DRAWN BY:	RRF/RKY
CHECKED BY:	PDQ
JOB NO.:	20-02-PEB
DATE:	5/20/22

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246E05225005

Van Cleef
ENGINEERING WITH FOCUS
VAN CLEEF ENGINEERING ASSOCIATES, LLC
4 AKA DRIVE SUITE 101 HANDELTON, NJ 08041
WWW.VANCLEEFENGINEERING.COM
PHONE: 609.689.1100
CITY OF AUTHORIZATION NO. 246A2813200

CONSTRUCTION DETAILS
FOR
**THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN**
BLOCK 701, LOT 4, BLOCK 502, LOT 4,
BLOCK 206, LOT 10 & BLOCK 205, LOT 1
PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

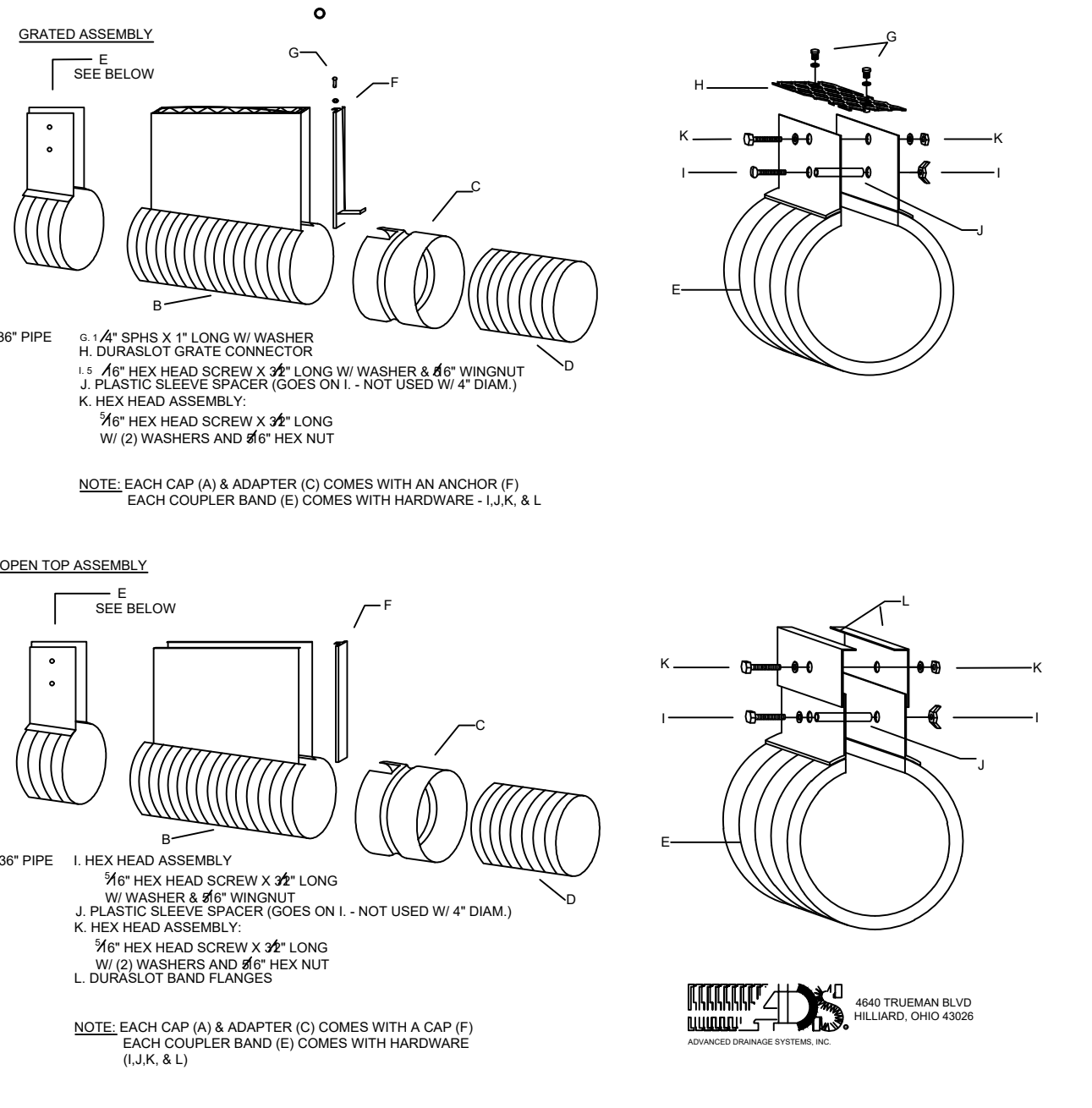
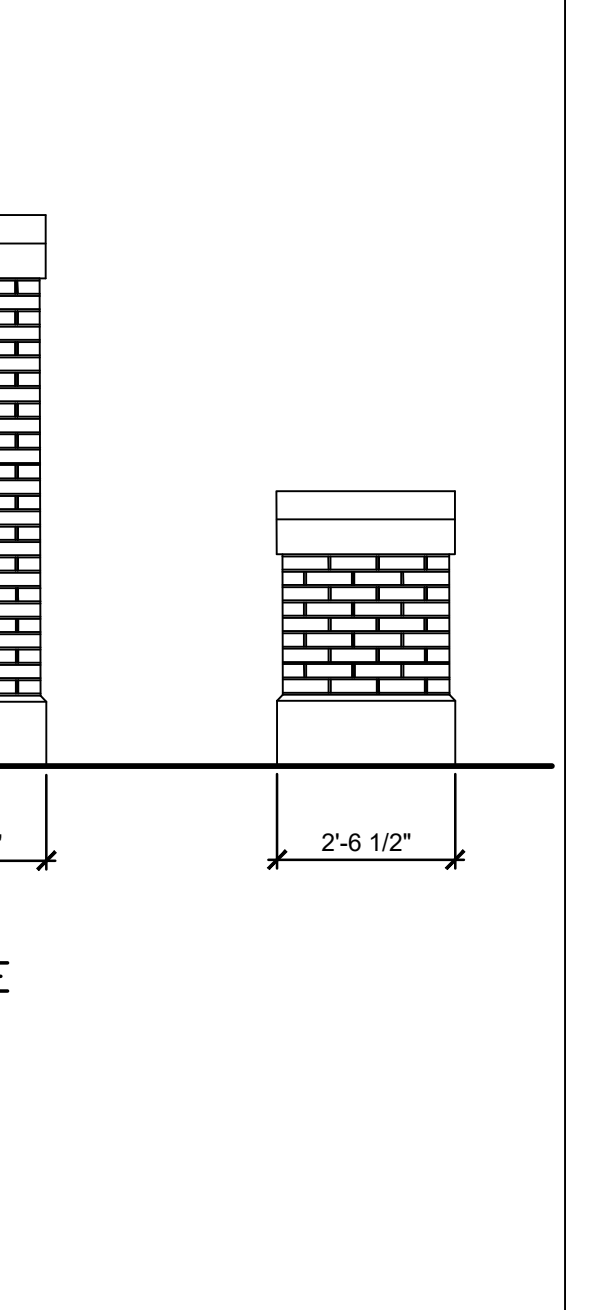
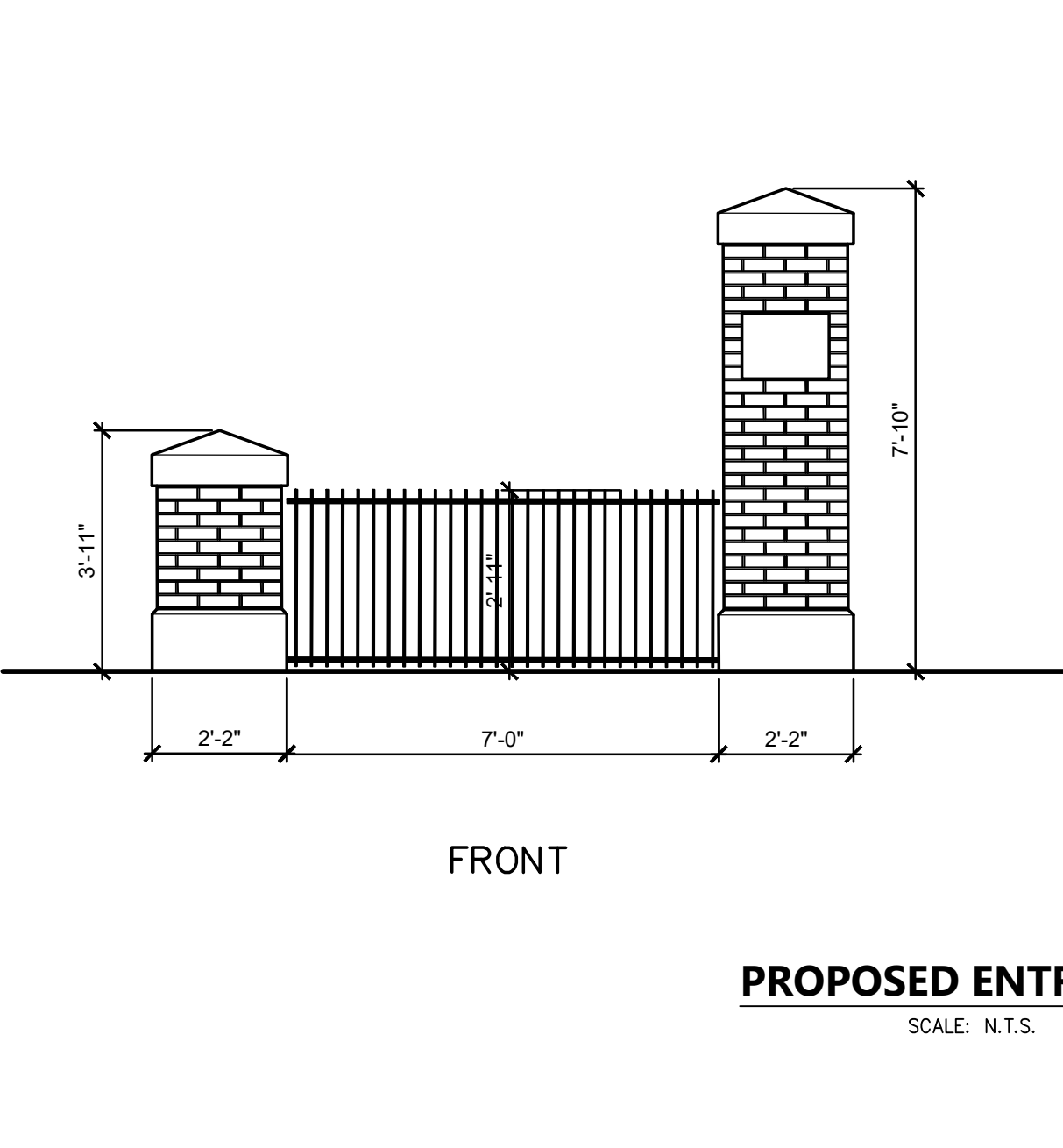


SINGLE SIDED CAST STONE WALL SOIL FRICTION ANGLE GRID CHART | 27°

Exposed Height (ft)	Total Height (ft)	No. of Cast Stone Courses	Soil Friction Angle (degrees)												
			1	2	3	4	5	6	7						
1.8	2.3	1	4.0	1.0											
2.3	2.8	5	1.0	4.0	1.0										
2.8	3.3	4		1.0	4.0	1.0									
3.3	3.8	7			1.0	4.0	1.0								
3.8	4.3	2				1.0	4.0	1.0							
4.3	4.8	9					1.0	4.0	1.0						
4.8	5.3	10						1.0	4.0	1.0					
5.3	5.8	11							1.0	4.0					
5.8	6.3	12								1.0					
6.3	6.8	13									1.0				
6.8	7.3	14										1.0			
7.3	7.8	15											1.0		
7.8	8.3	16												1.0	
8.3	8.8	17													1.0

PROPOSED ENTRY PIERS

SCALE: N.T.S.



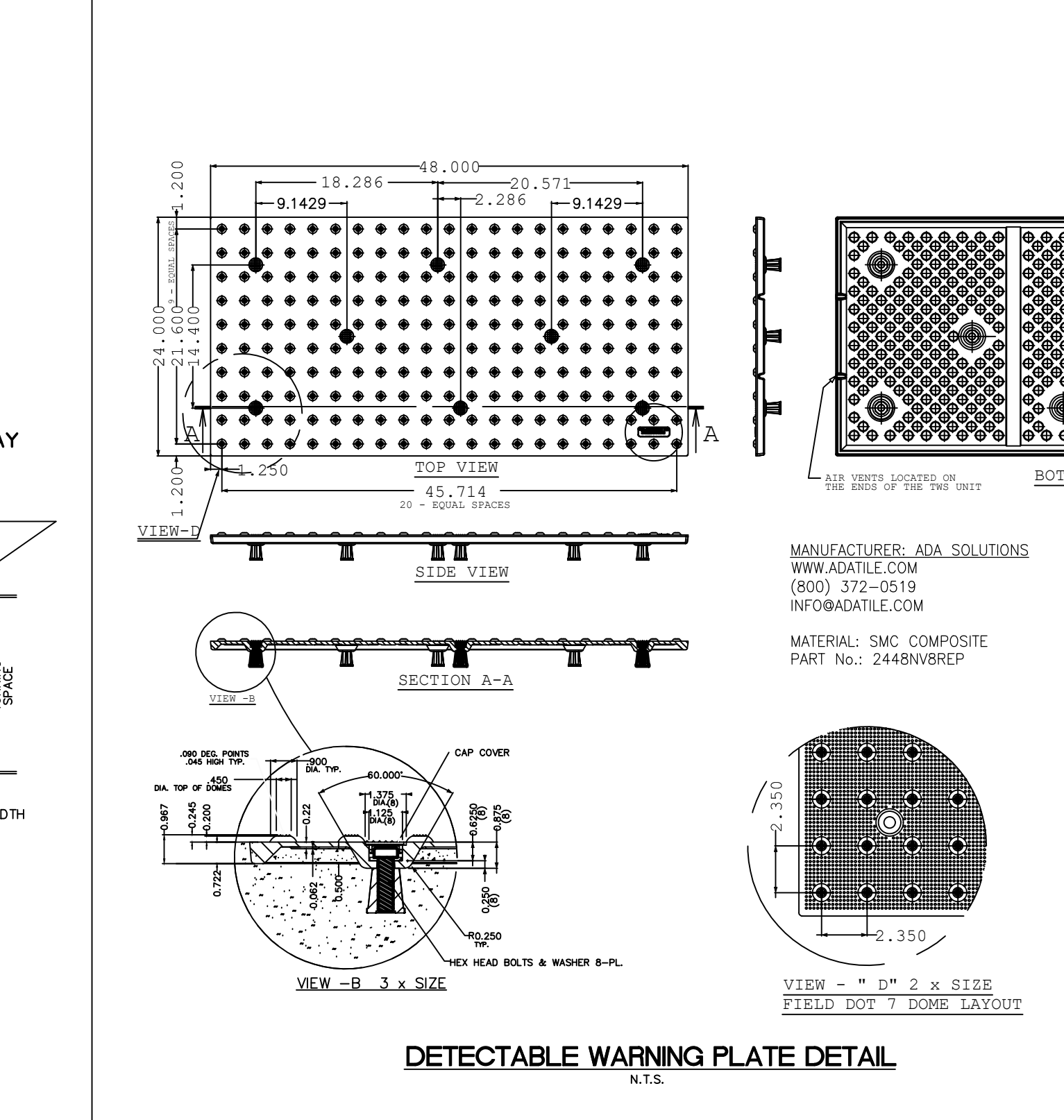
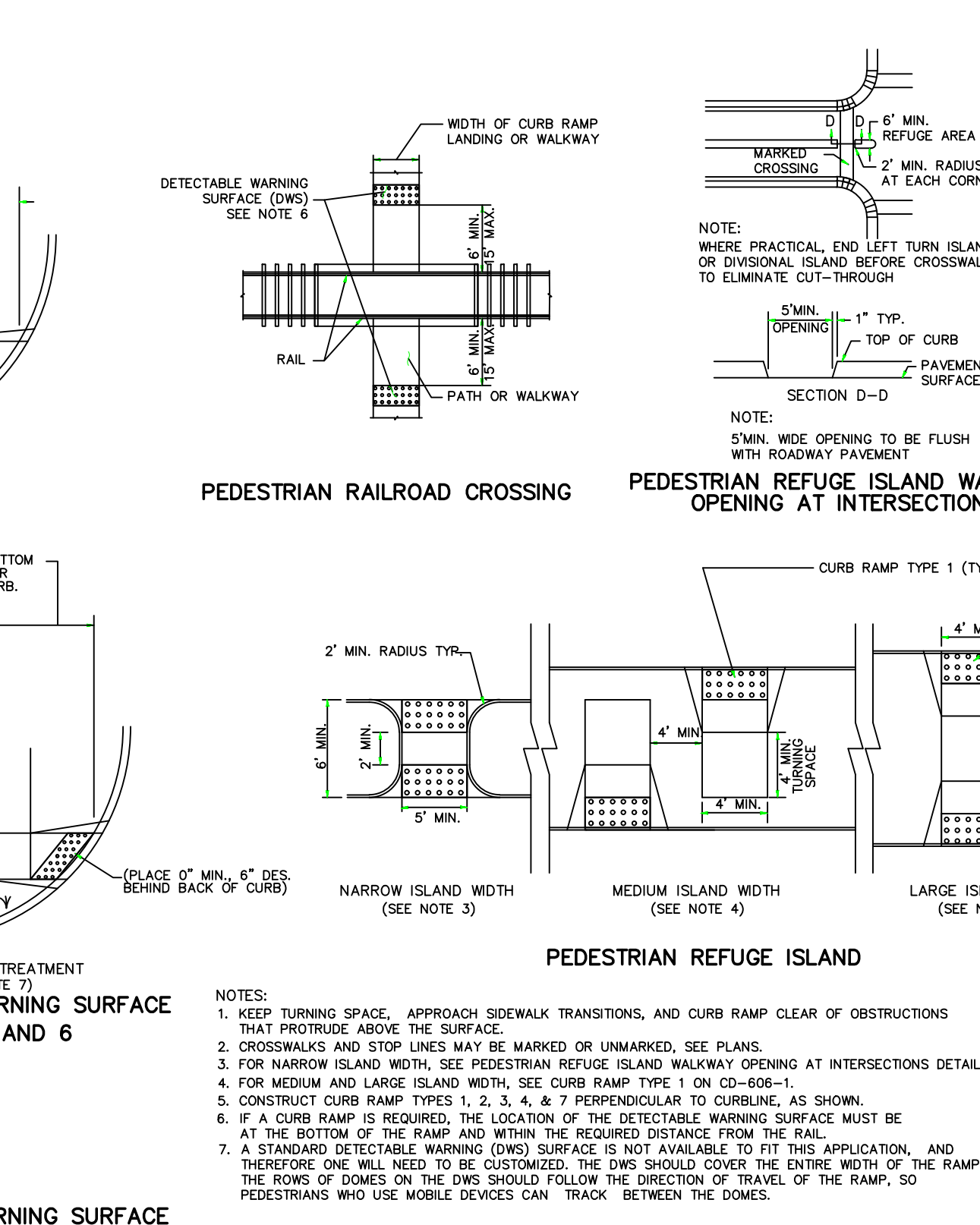
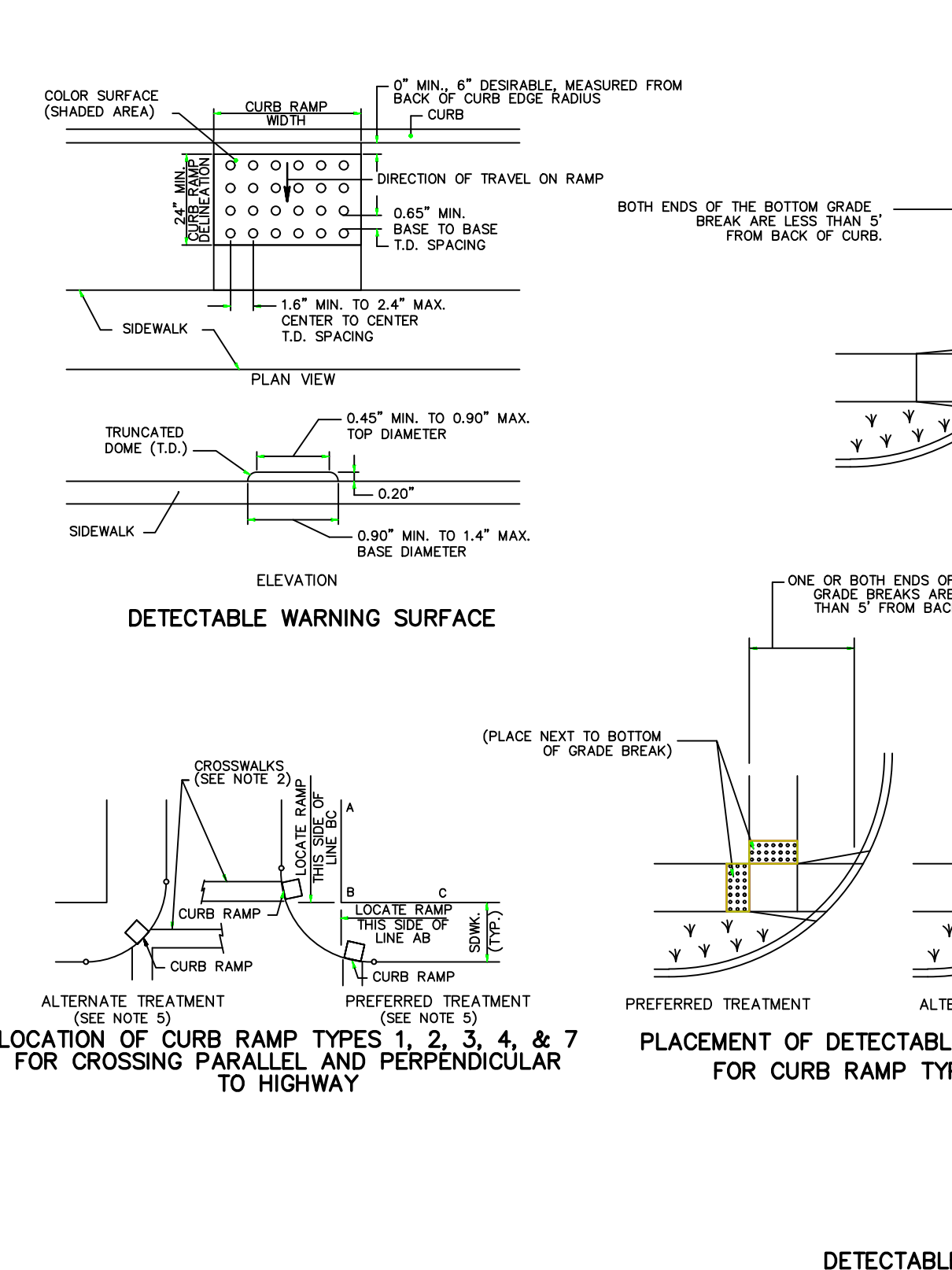
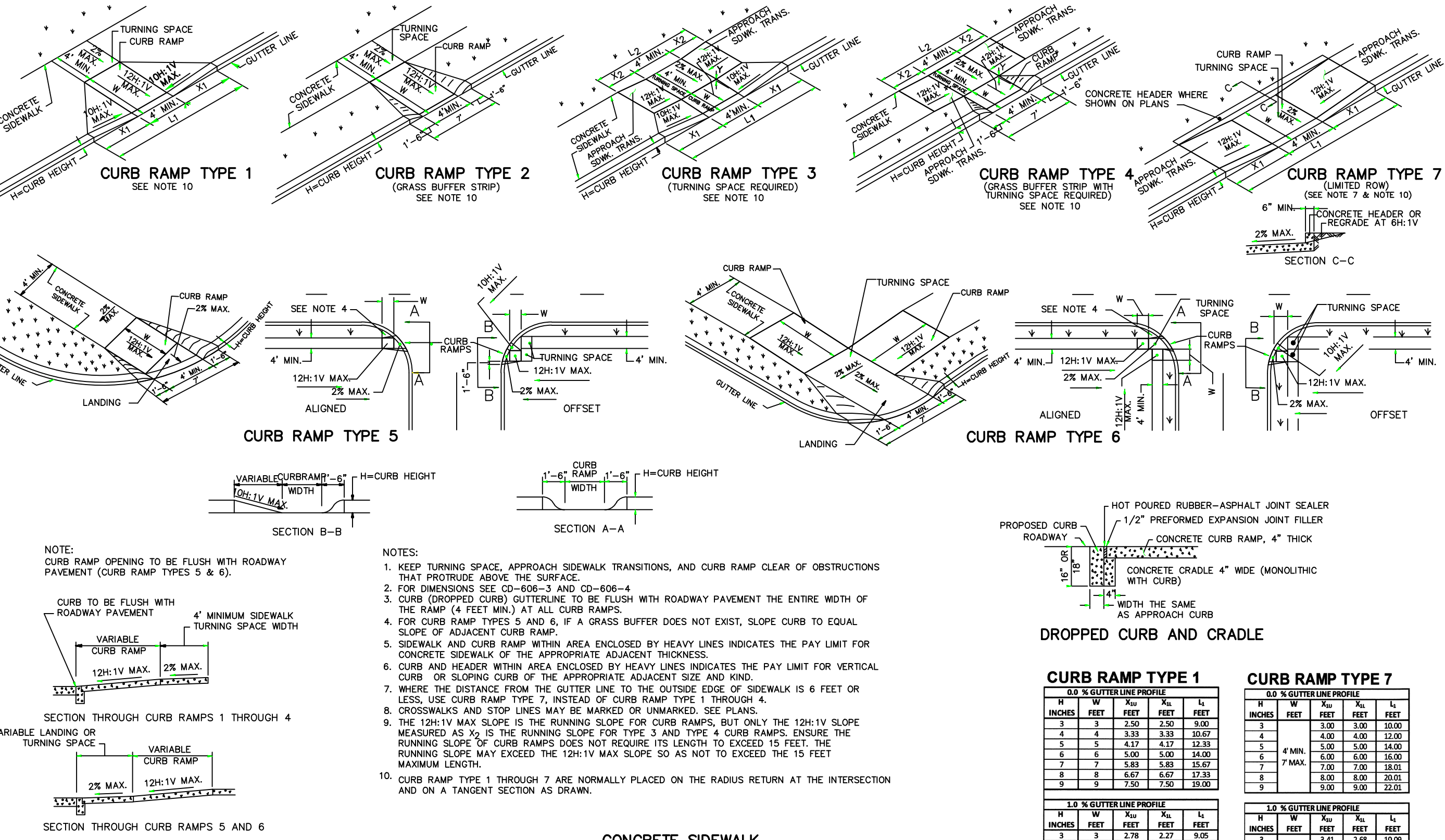
PIPE DIAM.	H	W	F	O	S	PRODUCT # (GRATED)	PRODUCT # (OPEN TOP)
4"	VARIES	0.34"	0.5"	1.25"	1.75"	04R005	04R050T
6"	VARIES	0.5"	0.75"	1.75"	2.25"	06R005	06R050T
8"	VARIES	0.65"	0.95"	1.95"	2.55"	08R005	08R050T
10"	VARIES	0.85"	1.15"	2.15"	2.75"	10R005	10R050T
12"	VARIES	1.05"	1.35"	2.35"	2.95"	12R005	12R050T
14"	VARIES	1.25"	1.55"	2.55"	3.15"	14R005	14R050T
16"	VARIES	1.45"	1.75"	2.75"	3.35"	16R005	16R050T
18"	VARIES	1.65"	1.95"	2.95"	3.55"	18R005	18R050T
20"	VARIES	1.85"	2.15"	3.15"	3.75"	20R005	20R050T
24"	VARIES	2.25"	2.55"	3.55"	4.15"	24R005	24R050T
30"	VARIES	2.85"	3.15"	4.15"	4.75"	30R005	30R050T
36"	VARIES	3.45"	3.75"	4.75"	5.35"	36R005	36R050T

NOTE:

A. SLOT HEIGHTS TO CONFORM TO DIMENSIONS ON PRODUCT PLANS. W AT EACH END OF EACH DIMENSION LAYOUTS FOR APPROVAL BEFORE PRODUCTION.

B. DIMENSION FROM GRADE TO PIPE HEIGHT.

C. H AND HD VARY BASED ON PROJECT SPECIFICATIONS.



ONLY THOSE PLANS WHICH CONTAIN A DIGITAL SIGNATURE OR COLLOURED RED SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY REPRODUCTION, REVISION, DUPLICATION, USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

811
Call before you dig.
1-888-275-1000

IT'S THE WAY TO Dig Safely.

INCHES	FEET	FEET	FEET	FEET
1	0.083	0.167	0.250	0.333
2	0.167	0.333	0.500	0.667
3	0.250	0.500	0.750	1.000
4	0.333	0.667	1.000	1.333
5	0.417	0.833	1.250	1.667
6	0.500	1.000	1.500	2.000
7	0.583	1.167	1.750	2.333
8	0.667	1.333	2.000	2.667
9	0.750	1.500	2.250	3.000

INCHES	FEET	FEET	FEET	FEET
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4	0.333	0.667	1.000	1.333
5	0.417	0.833	1.250	1.667
6	0.500	1.000	1.500	2.000
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CONSTRUCTION DETAILS FOR THE PENNINGTON SCHOOL MASTER PLAN PRELIMINARY & FINAL SITE PLAN

BLOCK 701, LOT 4, BLOCK 502, LOT 4, BLOCK 206, LOT 10 & BLOCK 205, LOT 1 PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY

Van Cleef ENGINEERING WITH FOCUS

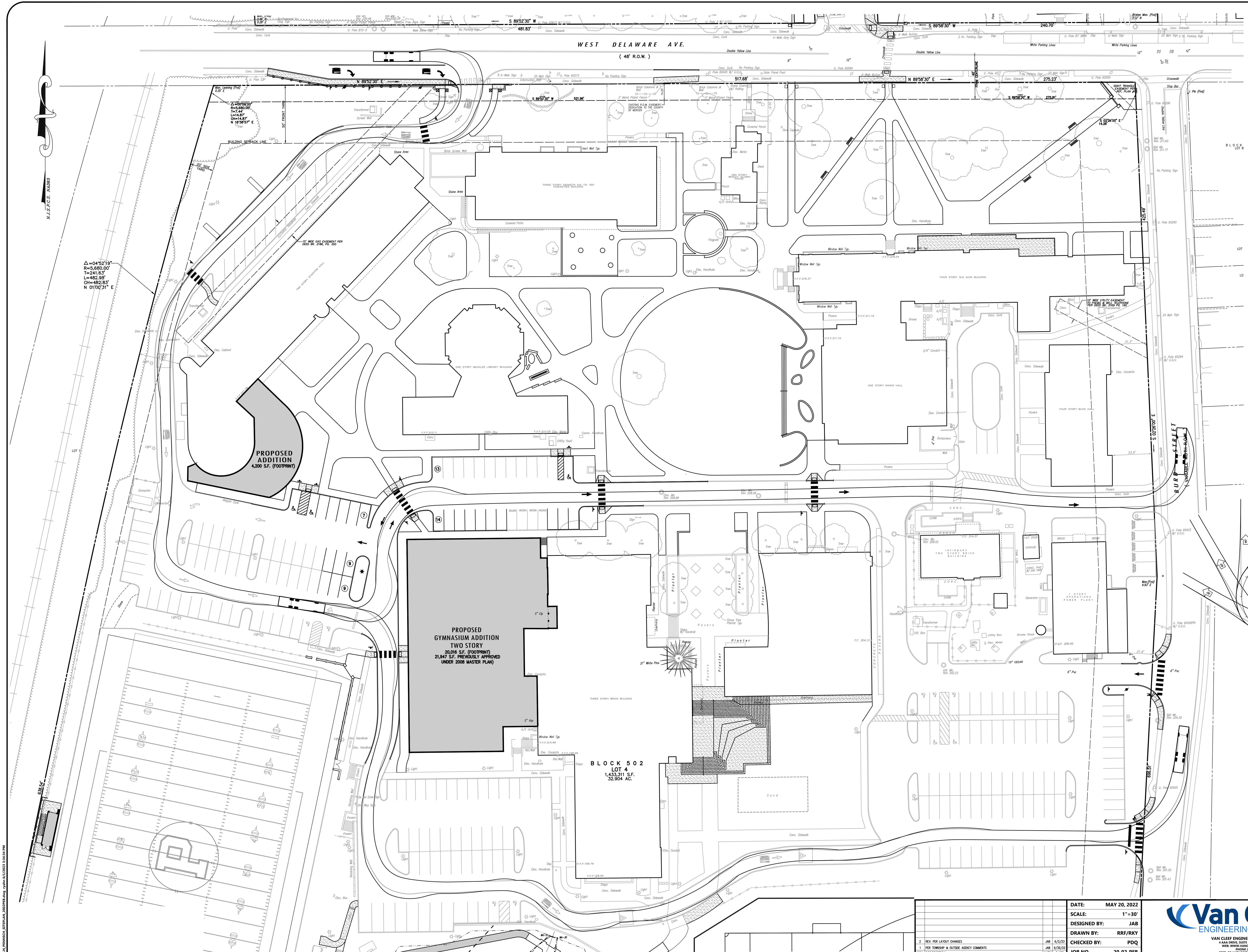
VAN CLEEF ENGINEERING ASSOCIATES, LLC
400 SOUTH NITE RD. HANOVER, NJ 08031
WWW.VANCLEEFENGINEERING.COM
PHONE: 609.489.1100
CERT. OF AUTHORIZATION NO. 24628192300

DATE: MAY 20, 2022
SCALE: AS NOTED
DESIGNED BY: JAB
DRAWN BY: RRF/RKY
CHECKED BY: PDQ
JOB NO. 20-02-PEB

DATE: 5/20/22

JAMES A. BASH
NEW JERSEY PROFESSIONAL ENGINEER NUMBER 246E052258005

Bridge/Highway Construction Inspector
Environmental Geotechnical/Drainage Landscape Architecture
Local/Regional Planning Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater



- REFERENCE DATUM:**
 1. VERTICAL DATUM USED BASED ON REF. PLAN NO. 1 AND NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83
- GENERAL NOTES:**
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE SURVEY. THEREFORE, THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS, RIGHT OF WAY COVENANTS, ETC. AS MAY BE DISCLOSED IN A CURRENT COMPREHENSIVE TITLE SEARCH.
 - THIS MAP REFLECTS EXISTING SITE CONDITIONS AS THE RESULT OF A FIELD SURVEY PERFORMED BY VAN CLEEF ENGINEERING ASSOCIATES ON 11/22/21.
 - THIS PLAN IS NOT VALID UNLESS EMBOSSED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL(S).
 - LOCATION OF ABOVE GROUND UTILITIES AS SHOWN.
 - NO CERTIFICATION IS MADE BY VCEA AS TO THE ACTUAL UNDERGROUND POSITION OF ANY UTILITIES OR TO THE COMPLETENESS AND/OR ACCURACY OF UTILITY INFORMATION PROVIDED BY OTHERS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION ON THIS PROJECT. THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF ANY CONFLICTS.
 - IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL 1-800-272-1000 TO ORDER UTILITY MARKINGS.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5" TOPSOIL, SEED, FERTILIZER, LIME, SEED AND MULCH.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ACTIVITIES WITH THE SCHOOL A MINIMUM OF 48 HOURS IN ADVANCE.

- CONSTRUCTION NOTES:**
- ALL CONSTRUCTION DEBRIS TO BE REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS.
 - CONTRACTOR TO PROVIDE SECURE STAGING AREA ON-SITE. LOCATION TO BE AGREED UPON BY SCHOOL.
 - CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS FOR SCHOOL STAFF AND STUDENTS DURING CONSTRUCTION.
 - CONTRACTOR TO PROVIDE EMERGENCY ACCESS TO SCHOOL AT ALL TIMES.
 - ALL SEDIMENT DROPPED, SPILLED OR TRACKED ON PAVED SURFACES TO BE REMOVED IMMEDIATELY.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL SOIL EXPORT OR EXPORT PERMIT(S) REQUIRED, INCLUDING FEES.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL ON-SITE SAFETY MEASURES. ANY EXCAVATION WORK MUST BE UNDERSTAND AND MAINTAINED AS REQUIRED BY LOCAL, STATE AND FEDERAL CODES. NO SEPARATE PAYMENT SHALL BE MADE FOR ON-SITE SAFETY. SECURE THE COSTS OF ON-SITE SAFETY AND SECURITY SHALL BE INCLUDED IN COST OF THE WORK.
 - ALL CONCRETE SIDEWALK TO BE ADA COMPLIANT WITH A MAXIMUM SLOPE OF 2.0% AND A MAX. RUNNING SLOPE OF 5.0%. SIDEWALK WITH A RUNNING SLOPE GREATER THAN 5.0% REQUIRES AN ADA COMPLIANT HANDRAIL. NO SIDEWALK SHALL HAVE A RUNNING SLOPE GREATER THAN 8.33%.
 - ALL EQUIPMENT, MATERIALS, ETC. SHALL BE CONFINED TO THE DESIGNATED WORK AREA. NO USE OF ADDITIONAL AREAS FOR STORAGE OF MATERIALS IS PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE OWNER. DESIGNATED WORK AREA SHALL BE DETERMINED AT PRE-CONSTRUCTION MEETING.
 - ALL DISTURBED AREAS TO BE STABILIZED WITH 5 INCHES OF TOPSOIL, FERTILIZER, LIME, MULCH AND TACK WITHIN LIMIT OF DISTURBANCE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING INFRASTRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND ALL OF THE EXISTING INFRASTRUCTURE THE CONTRACTOR DAMAGED DURING CONSTRUCTION.
 - ALL BACKFILL, FILL AREAS AND SUBGRADES SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNLESS OTHERWISE NOTED ON THE PLANS.

LEGEND

EXISTING	PROPOSED
Sanitary Sewer	Sanitary Sewer
Storm Sewer	Storm Sewer
Flared End Section	Flared End Section
Drainage Inlet	Drainage Inlet
Drainage Manhole	Drainage Manhole
Headwall	Headwall
Sanitary Sewer MH	Sanitary Sewer MH
Fire Hydrant	Fire Hydrant
Sign	Sign
Utility Pole	Utility Pole
Valve	Valve
Water Main	Water Main
Gas Main	Gas Main
Electric Line	Electric Line
Telephone Line	Telephone Line
Grade Elevation	Grade Elevation
Contour Elevation	Contour Elevation
N/A	Concrete Removal
N/A	Pavement Removal to be Removed
N/A	Pavement Milling
N/A	Abandon in Place

GRAPHIC SCALE
 0 15 30 60
 1 INCH = 30 FT

PLAN NOTATION
 ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSION OF THE UNDERSIGNED WILL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, SUPPLEMENT OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

SERIAL NO.
 TO LOCATE UNDERGROUND UTILITIES IN WORK AREAS, REFER TO THE LOCATION OF THESE UTILITIES ON THE PLAN OR TO THE 811 CALL CENTER.
 IT'S THE LAW!
 Dig Safely.
 Call before you dig.
 1-800-275-1000

DATE: MAY 20, 2022
SCALE: 1"=30'
DESIGNED BY: JAB
DRAWN BY: RRF/RKY
CHECKED BY: PDQ
JOB NO.: 20-02-PEB

REVISIONS:

REV	DESCRIPTION	DATE
2	REV. PER LAYOUT CHANGES	JAB 4/2/23
1	PER TOWNSHIP & OUTSIDE AGENCY COMMENTS	JAB 5/20/22

PLAN INFORMATION:
 BLOCK 502
 LOT 4
 1,453,311 S.F.
 32.904 AC.

PROPOSED GYMNASIUM ADDITION
 TWO STORY
 20,016 S.F. (FOOTPRINT)
 21,947 S.F. PREVIOUSLY APPROVED UNDER 2008 MASTER PLAN

PROPOSED CLASSROOM ADDITION
 4,200 S.F. (FOOTPRINT)

Van Cleef ENGINEERING WITH FOCUS
 VAN CLEEF ENGINEERING ASSOCIATES, LLC
 1000 DRIVE SUITE 100 HAMILTON, NJ 08610
 WWW.VANCLEEFENGINEERING.COM
 PHONE: 609.681.1100
 CERT. OF AUTHORIZATION NO. 246A28123200

FIRE TRUCK TURNING DIAGRAM
 FOR
THE PENNINGTON SCHOOL MASTER PLAN
PRELIMINARY & FINAL SITE PLAN
 BLOCK 701, LOT 4, BLOCK 502, LOT 4,
 BLOCK 206, LOT 10 & BLOCK 205, LOT 1
 PENNINGTON BOROUGH, MERCER COUNTY, NEW JERSEY