EXISTING CONDITIONS NOTES:

1. EXISTING SURVEY PREPARED BY H2M ARCHITECTS + ENGINEERS, DATED 03/16/2020.
2. ELEVATIONS REFER TO N.A.V.D. 1988.
3. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A COMPLETE TITLE REPORT.
4. THE OFFSETS AND DIMENSIONS SHOWN FROM STRUCTURES TO THE PROPERTY LINE ARE FOR A SPECIFIC PURPOSE AND ARE NOT INTENDED TO GUIDE THE ERECTION OF FENCES WALLS POOLS PATIOS ADDITIONS TO BUILDINGS AND ANY OTHER CONSTRUCTION.
5. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON ARE BASED ON ABOVEGROUND FEATURES AND/OR RECORD DRAWINGS AND MARKOUT PROVIDED BY SINGER UTILITY ENGINEERING, P.C. ON MARCH, 2020. LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED STRUCTURES AND UTILITIES MAY BE ENCOUNTERED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.

UTILITY NOTES:

SUBSURFACE UTILITY ENGINEERING (SUE) QUALITY LEVELS OF SERVICE (ACCURACY)
ALL MARKOUT IS QUALITY LEVEL B UNLESS OTHERWISE NOTED.

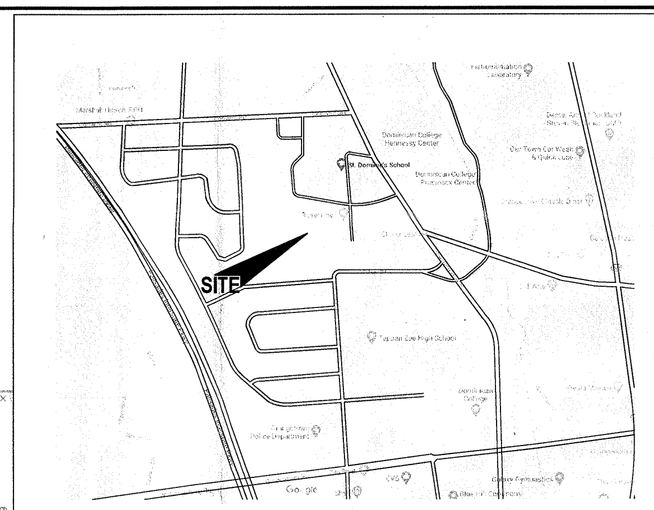
QL-A = QUALITY LEVEL A (TEST HOLES)
DATA TYPICALLY ACQUIRED AT ONE POINT ON AN UNDERGROUND UTILITY FEATURE EXPOSED BY AIR VACUUM EXCAVATION OR OTHER MEANS. THE HORIZONTAL AND VERTICAL LOCATION OF THIS REFERENCE POINT IS ACQUIRED AND REPORTED TO ACCEPTABLE SURVEY TOLERANCES. THE ACQUIRED DATA FULFILLS SECTION 5.4.5 ON PAGE 6 OF ASCE STANDARD 38-02.

QL-B = QUALITY LEVEL B (UTILITY DESIGNATION)
DEPICTION OF AN UNDERGROUND UTILITY LINE ESTABLISHED BY SENSING THE LOCATION WITH ELECTRONIC INSTRUMENTATION. LINEWORK AND UTILITY SURFACE FEATURES ARE ACQUIRED BY SURVEYING POINTS ALONG ALIGNMENT TO ACCEPTABLE SURVEY TOLERANCES.

EOI
END OF INFORMATION PERTAINS TO THE LOSS OF SIGNAL THAT HAS BEEN APPLIED TO AN UNDERGROUND UTILITY AND THEN DETECTED TO ELECTRONICALLY LOCATE THE UTILITY. COMMONLY FOUND WHERE UTILITIES CHANGE TO NON-CONDUCTIVE MATERIALS, ARE CUT OR AT END OF UTILITY.

REMOVALS LEGEND

DESCRIPTION	SYMBOL
REMOVE AND DISPOSE OF EXISTING ELECTRIC LINE	E E
REMOVE AND DISPOSE OF EXISTING TELEPHONE LINE	T T
REMOVE AND DISPOSE OF EXISTING IRRIGATION LINE	IR IR



LOCATION MAP
SCALE 1" = 1000'±

© 2016 GOOGLE MAP DATA

REMOVE AND DISPOSE IRRIGATION BOXES AND PIPING (TYP)

REMOVE AND DISPOSE SCOREBOARD. CUT AND CAP ELECTRIC LINES

REMOVE AND DISPOSE ANY PAVED AREAS IN PATHWAY

REMOVE AND DISPOSE TREES/BRUSH

LIMIT OF BRUSH REMOVAL

REMOVE AND DISPOSE METAL BLEACHERS (TYP)

375.28'

N13° 51' 49"W

GRAPHIC SCALE
30 0 15 30
(IN FEET)
1 inch = 30 ft.

EXISTING CONDITIONS LEGEND

DESCRIPTION	SYMBOL
BENCHMARK	
CATCH BASIN	
HYDRANT	
TEST BORE/TEST HOLE	
ELECTRIC MANHOLE	
ELECTRIC RISER	
PULL BOX	
UTILITY POLE/GUY POLE	
IRRIGATION CONTROL BOX	
SPRINKLER HEAD	
SCOREBOARD	
EVERGREEN TREE	
DECIDUOUS TREE	
CURB	
DROP CURB	
STORM DRAIN	D D
IRRIGATION LINE	IR IR
UNDERGROUND ELECTRIC	E E
UNDERGROUND TELEPHONE	T T
FENCE	X X
CONTOUR	100
SPOT ELEVATION	86.91
TOP/BOT CURB GRADE	TC 89.78 / BC 87.55
ASPHALT PAVEMENT	

SITE REMOVALS NOTES:

1. REPORT ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS TO THE ENGINEER IN WRITING IMMEDIATELY.
2. UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FOR DESIGN PURPOSES ONLY. PROVIDE FOR CONSTRUCTION MARKOUT AND LOCATE EXISTING UNDERGROUND UTILITIES. NO EXCAVATION CAN COMMENCE UNTIL UTILITY DOCUMENTATION HAS BEEN COMPLETED.
3. AFTER MARKOUT AND PRIOR TO DISTURBING THE SITE, UNCOVER ALL SUBSURFACE UTILITIES AND STRUCTURES WITHIN LIMITS OF DISTURBANCE TO CONFIRM THEIR LOCATION AND DEPTH.
4. NO COMPENSATION WILL BE MADE FOR ANY INCONVENIENCE CAUSED BY ENCOUNTERING UTILITIES AND STRUCTURES WHICH ARE NOT SHOWN, OR ARE INACCURATELY SHOWN ON THE PLANS.
5. REPAIR ANY DAMAGE TO EXISTING UTILITIES RESULTING FROM CONTRACTOR OPERATIONS IMMEDIATELY AT NO COST TO OWNER.
6. REPAIR ANY DAMAGE TO EXISTING SITE FEATURES SCHEDULED TO REMAIN RESULTING FROM CONTRACTOR OPERATIONS AT NO COST TO OWNER.
7. LOCATE ALL COMPONENTS OF ANY EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION AND PROTECT THROUGHOUT THE DURATION OF THE CONTRACT. REPAIR ALL DAMAGED COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.
8. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
9. INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO ANY GROUND DISTURBANCE.
10. DELINEATE THE LIMITS OF CLEARING AND REVIEW WITH THE OWNER PRIOR TO COMMENCING WORK.
11. NOTIFY OWNER AND ENGINEER IMMEDIATELY IN WRITING WHEN UNKNOWN STRUCTURES OR SUSPECTED HAZARDOUS OR CONTAMINATED MATERIALS ARE ENCOUNTERED PRIOR TO REMOVAL OR DISTURBANCE.
12. TAKE APPROPRIATE MEASURES TO PROTECT PEDESTRIANS AND VEHICULAR TRAFFIC DURING REMOVAL ACTIVITIES, AND PROVIDE TEMPORARY MEASURES FOR THE PROTECTION AND SAFETY OF THE PUBLIC UNTIL FINAL ACCEPTANCE BY THE OWNER.
13. BACKFILL ALL VOIDS RESULTING FROM THE REMOVAL OF EXISTING SITE FEATURES. BACKFILL TO BE SOIL, FREE OF ORGANIC MATERIAL, DEBRIS, TRASH, CLAY AND STONES LARGER THAN 4 INCHES.

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MARK	DATE	DESCRIPTION

STATE OF NEW YORK · MATTHEW RONALD MANN · 071569 · LICENSED PROFESSIONAL ENGINEER

"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
MRM	JMT		

PROJECT No.	DATE:	SCALE:
LGTR 2001	OCTOBER 2020	AS SHOWN

CLIENT:
DOMINICAN COLLEGE

ATHLETIC COMPLEX SYNTHETIC TURF FIELD

DOMINICAN COLLEGE

470 WESTERN HIGHWAY ORANGEBURG, NEW YORK 10962
SEC. 74.06, BLOCK 3, P/O LOTS 1.1 & 1.3

CONTRACT

STATUS: **REGULATORY REVIEW**

SHEET TITLE:
EXISTING SITE CONDITIONS AND REMOVALS PLAN

DRAWING No.: **C1.0**

SHEET No.: 1 OF 6

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MULTI-PURPOSE FIELD STRIPING TABLE				
SPORT/EVENT	DIMENSIONS	TYPE OF STRIPE	COLOR	PANTONE COLOR NO.
SOCCER	210'x360'	INLAID	CANARY YELLOW	136C
BOY'S LACROSSE	180'x330'	INLAID	REFLEX BLUE	RFXC
BOY'S LACROSSE CIRCLE	9' RADIUS	PAINTED	REFLEX BLUE	RFXC (OR EQUAL)
GIRL'S LACROSSE	210'x360'	INLAID	RED	185C

SITE DATA

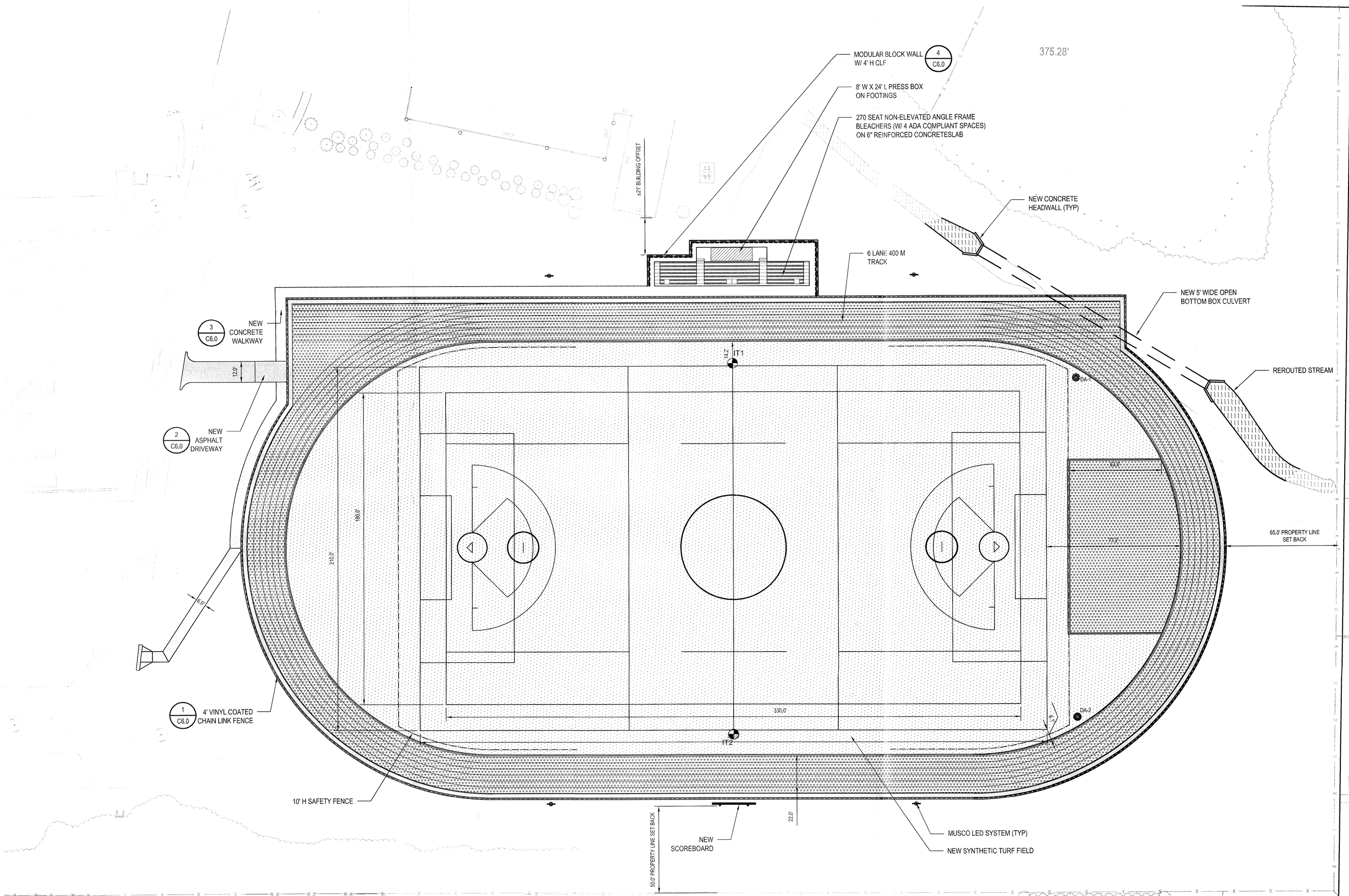
ZONE: R-40
USE: SCHOOL, ATHLETIC FIELD
SCHOOL DISTRICT: SOUTH ORANGETOWN CSD
FIRE DISTRICT: ORANGEBURG
WATER DISTRICT: UNITED WATER NEW YORK
SEWER DISTRICT: ORANGETOWN SEWER DISTRICT

BULK REQUIREMENTS

ITEM	REQUIRED	NEW
MINIMUM REAR YARD DEPTH	50 FT	65 FT
MINIMUM SIDE YARD DEPTH (EACH)	30 FT	50 FT
MINIMUM SIDE YARD DEPTH (AGGREGATE)	100 FT	192 FT

LEGEND

DESCRIPTION	SYMBOL
RETAINING WALL	
ASPHALT PAVEMENT	
CONCRETE PAVEMENT SIDEWALK	
TURF FIELD	
RUNNING TRACK	
RELOCATED STREAMBED	
UTILITY MANHOLE	D
HANDICAP RAMP	
CHAIN LINK FENCE	x x



SITE PLAN NOTES:

1. INSPECT THE SITE PRIOR TO SUBMISSION OF BIDS AND MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
2. NOTIFY THE OWNER AND H2M (TELEPHONE 631-756-8000) AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF THE WORK, THE SAME NOTICE SHALL BE REQUIRED WHEN RESUMING WORK AFTER ANY STOPPAGE OR DELAY.
3. COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE THE WORK.
4. PERFORM DAILY CLEANUP OPERATIONS INCLUDING REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL, AND DRIVEWAY/STREET CLEANING TO THE SATISFACTION OF THE OWNER.
5. DURING ALL NON-WORKING HOURS, STORE ALL EQUIPMENT AND MATERIALS WITHIN AN AREA DESIGNATED BY THE OWNER AT THE PROJECT SITE.
6. ALL CONSTRUCTION TO CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
7. COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER TO MINIMIZE INTERRUPTION TO THE OWNER'S OPERATIONS.
8. RESTORE SURROUNDING AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION. RESTORE TO NEW CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
9. RESTORE ALL DISTURBED GRASS AREAS AND ALL AREAS NOT SPECIFICALLY IDENTIFIED FOR OTHER IMPROVEMENTS WITH 4 INCHES OF TOPSOIL AND SEED.
10. SEAL ALL JOINTS BETWEEN NEW ASPHALT AND EXISTING ASPHALT WITH HOT ASPHALT CEMENT.

TOWN OF ORANGETOWN NOTES:

1. LOT DRAINAGE SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
2. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
3. SIDEWALKS SHALL BE INSTALLED IN ACCORDANCE WITH THE HIGHWAY DEPARTMENT'S SPECIFICATIONS FOR SIDEWALKS.
4. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.

GRAPHIC SCALE
30 0 15 30
(IN FEET)
1 inch = 30 ft.

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STATE OF NEW YORK · MATTHEW RONALD MORAN · 071569 · LICENSED PROFESSIONAL ENGINEER

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MRM	JMT		

PROJECT No.	DATE:	SCALE:
LGTR 2001	OCTOBER 2020	AS SHOWN

CLIENT
DOMINICAN COLLEGE

ATHLETIC COMPLEX SYNTHETIC TURF FIELD

DOMINICAN COLLEGE

470 WESTERN HIGHWAY ORANGEBURG, NEW YORK 10962

SEC. 74.06, BLOCK 3, P/O LOTS 1.1 & 1.3

CONTRACT

STATUS
REGULATORY REVIEW

SHEET TITLE
DIMENSIONAL SITE PLAN

DRAWING No.
C2.0

SHEET No.
2 OF 6

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DRAINAGE STRUCTURE SCHEDULE

STRUCT. NUMBER	STRUCTURE TYPE	RIM/TC ELEVATION	INVERT ELEVATIONS
DA-1	NEW 4' DIA. MANHOLE	RIM 191.60	N 187.85 (8") E 187.75 (8")
DA-2	NEW 4' DIA. MANHOLE	RIM 191.60	N 187.85 (8") SE, W 186.80 (8") E 186.70 (8")

STORM DRAINAGE CALCULATIONS:

Table 01 – Stormwater Modeling Summary

Design Point	Watershed ID	Runoff Volume (cf)			Peak Runoff/SMP Overflow Rate (cfs)		
		1-Yr	10-Yr	100-Yr	1-Yr	10-Yr	100-Yr
	Pre-Development Condition						
1	EX - A	7,202	21,860	49,682	1.93	6.06	13.53
2	EX - B	7,539	22,883	52,007	2.02	6.35	14.17
	Post-Development Condition						
1	DEV - A	35,067	70.883	128,813	0.52	1.48	3.13
2	DEV - B	1,890	5,343	11,692	0.00	0.54	3.16

Table 02 – WQv Summary

Watershed ID	Watershed Area 'A' (ac)	Impervious Area (ac)	Percent Impervious (%)	Rv	WQv Required (ft³)	Chamber Volume Provided (ft³)
DEV - A	4.29	3.49	81	0.78	18,271	38,995
DEV - B	0.52	0.12	23	0.26	730	N/A

LEGEND

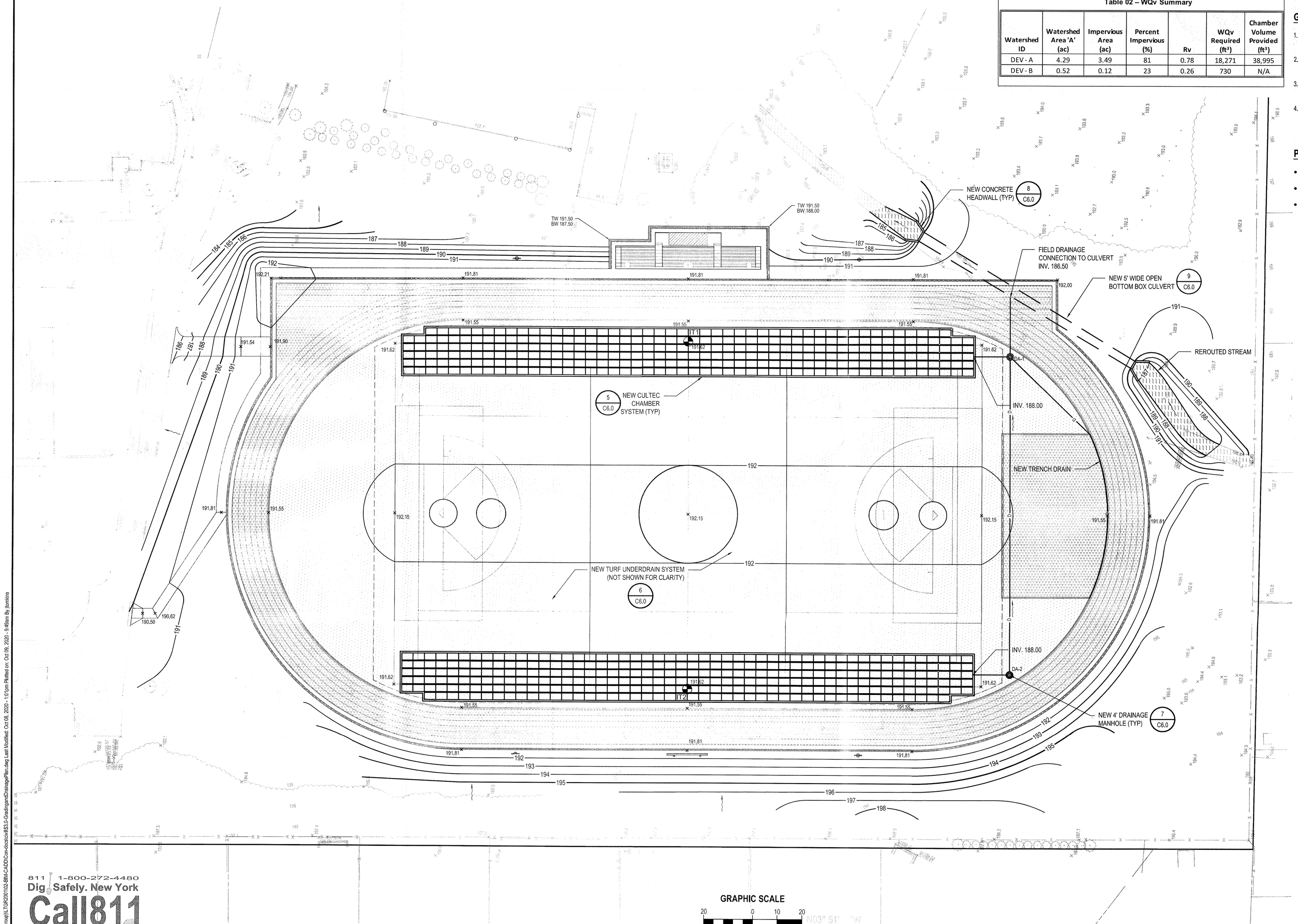
DESCRIPTION	SYMBOL
SPOT ELEVATION	+121.50
TOP AND BOTTOM WALL ELEVATION	TW 140.00 BW 139.50
MAJOR CONTOUR	240
MINOR CONTOUR	241
BORING / TEST HOLE LOCATION	IT1
RETAINING WALL	
UTILITY MANHOLE	S D E T U
DRAINAGE LINE	D D

GRADING AND DRAINAGE NOTES:

1. FOR NEW CONSTRUCTION THAT MEETS EXISTING CONDITIONS, ABUTTING SURFACES SHALL BE FLUSH AND ALIGNED.
2. ADJUST ALL EXISTING CASTINGS AND VALVE COVERS TO MEET PROPOSED GRADE.
3. CONSTRUCTION DEBRIS AND EXCESS SOIL SHALL BE REMOVED AND LEGALLY DISPOSED OFF SITE.
4. UNSUITABLE SOILS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IMMEDIATELY IN WRITING BEFORE REMOVAL OR DISTURBANCE.

PIPE MATERIAL SPECIFICATIONS:

- MANHOLE TO CULVERT CONNECTION: 8'Ø SMOOTH INTERIOR HDPE
- FIELD COLLECTION SYSTEM: 8'Ø SMOOTH INTERIOR HDPE
- FIELD UNDERDRAIN: 1" x 12" FLAT HDPE



IT-1

(EL. 190.0') GROUND SURFACE

FEET	NO	SB	CLASSIFICATION
1	1	2	DK. BRN. ORG. LOAM (OL)
		4	
2	3	3	DK. BRN. FINE SANDY SILT LOAM, TR. GRAVEL, ROOTS (OL)
		7	
5	3	10	DK. BRN./ BRN./ RED BRN. SILTY SAND, TR. GRVL, ROOTS (SM)(FILL)
		23	
	4	10	RED/ RED BRN. SILTY SAND, TR. GRAVEL, ROCK FRAG. (SM)
		12	
		10	RED/ RED BRN. SILTY SAND, TR. GRVL, ROCK FRAG., CLAY (SM)
10		14	
	5	4	RED/ RED BRN. SILTY CLAYEY SAND, TR. TO LITTLE GRVL, ROCK FRAG. (SC)
		10	
		8	
		35	
15			RED/ RED BRN. SANDY CLAYEY SILT, TR. ROCK FRAG. (ML)
	6	7	
		10	
		14	
		28	
20			RED SHALE
	7	100/5"	
		-	
		-	

REFUSAL @ 22' - 0"

IT-2

(EL. 192.2') GROUND SURFACE

FEET	NO	SB	CLASSIFICATION
1	WOH	1	DK. BRN. ORG. LOAM (OL)
		2	
		5	RED BRN. SANDY CLAYEY SILT, TR. GRAVEL, ROOTS (ML)(FILL)
2	WOH	3	
		6	
5	3	7	RED BRN. W/ DK. GRAY SILTY SAND, TR. GRVL, ROCK FRAG. (SM)(FILL)
		9	
		10	RED/ RED BRN. SILTY SAND, TR. GRVL, ROCK FRAG. (SM)
		12	
	4	10	RED/ RED BRN. SANDY SILT, LITTLE ROCK FRAG. (ML)
10		17	
		24	
		19	
	5	7	RED/ RED BRN. SILTY SAND, LITTLE GRVL, TR. ROCK FRAG. CLAY (SM)
		9	
		12	
		12	
15			RED SHALE
	6	100/5"	
		-	
		-	

REFUSAL @ 19' - 0"

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GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

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MARK	DATE	DESCRIPTION

STATE OF NEW YORK
MARK RONALD MORRIS
071569
LICENSED PROFESSIONAL ENGINEER

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
MRM	JMT		

PROJECT No.	DATE:	SCALE:
LGTR 2001	OCTOBER 2020	AS SHOWN

CLIENT

DOMINICAN COLLEGE

ATHLETIC COMPLEX SYNTHETIC TURF FIELD

DOMINICAN COLLEGE

470 WESTERN HIGHWAY ORANGEBURG, NEW YORK 10962

SEC. 74.06, BLOCK 3, P/O LOTS 1.1 & 1.3

CONTRACT: **ALL CONTRACTS**

STATUS: **REGULATORY REVIEW**

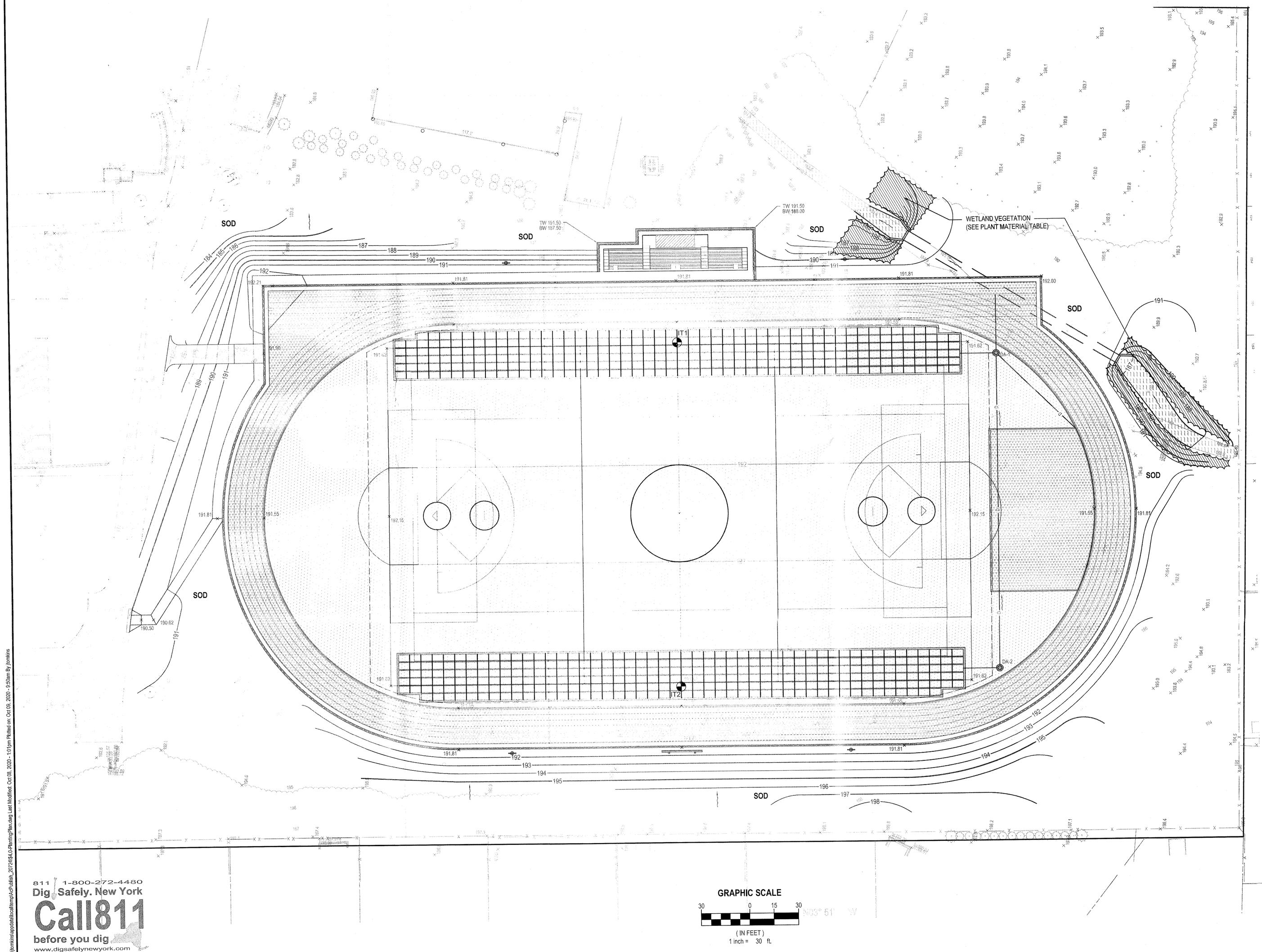
SHEET TITLE: **GRADING AND DRAINAGE PLAN**

DRAWING No.: **C3.0**

SHEET No.: 3 OF 6

WETLAND PLANT MATERIAL LIST

KEY	BOTANICAL NAME	COMMON NAME	SPACE	ROOT	REMARKS
	SHRUBS				All shrubs to be full and dense with the minimum number of canes for size requested in accordance with the latest edition of the American Standard for Nursery Stock. Spacing of shrubs shall be as shown on the plan or as noted. Plants listed from wet to dry, and should be placed from bottom of slope to top of slope.
RDW	Cornus sericea	Red-osier Dogwood	6'	B&B	
CEB	Sambucus canadensis	Common Elderberry	6'	B&B	
AWV	Viburnum dentatum	Arrowwood Viburnum	6'	B&B	
NBB	Morella pensylvanica	Northern Bayberry	6'	B&B	
	SEEDING		SEED MIX PROPORTION BY WEIGHT		SEEDING RATE
WETLAND MIX	Ernst Conservation Seeds	Riparian Buffer Mix	100%		Seed at 20 lbs per acre



LEGEND

DESCRIPTION	SYMBOL
WETLAND PLANTINGS	

PLANTING NOTES

1. ALL SUPPLIED AND INSTALLED PLANT MATERIAL SHALL BE NURSERY GROWN STOCK IN ACCORDANCE WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1). PLANT MATERIAL SHALL BE OF THE APPROVED SPECIES AND GROWN UNDER THE SAME CLIMATIC CONDITIONS AS THE SUBJECT SITE. THEY SHALL BE OF SYMMETRICAL GROWTH, FREE OF INSECTS, PESTS, AND DISEASE. SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
2. CONFIRM THE LOCATION OF EXISTING SUBSURFACE UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES AND COORDINATE WITH THE GRADING AND DRAINAGE PLAN OR UTILITY PLAN FOR THE LOCATION OF PROPOSED SUBSURFACE UTILITY LINES AND STRUCTURES PRIOR TO ANY EXCAVATION. NOTIFY THE LANDSCAPE ARCHITECT IF ANY CONFLICTS EXIST.
3. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY AND PRIOR TO THE INSTALLATION OF ANY PLANT MATERIALS IF SUB-GRADE SOIL CONDITIONS ARE DELETERIOUS TO PLANT GROWTH OR WILL INHIBIT DRAINAGE.
4. IF ANY DISCREPANCY EXISTS BETWEEN THE PLANT COUNT SHOWN IN THE PLANT MATERIAL LIST AND THE PLANTING PLAN, THE PLAN SHALL TAKE PRECEDENCE.
5. UNLESS OTHERWISE APPROVED IN WRITING, INSTALL VEGETATION DURING THE FOLLOWING PERIODS:
   a. DECIDUOUS WOODY PLANTS: SEPTEMBER 15 TO MAY 15 WHENEVER TEMPERATURE IS ABOVE 40 DEGREES F.
   b. EVERGREENS: AUGUST 15 TO SEPTEMBER 15 OR DURING APRIL AND MAY BEFORE THE START OF NEW GROWTH.
   c. SEEDING: APRIL 1 TO MAY 15 AND SEPTEMBER 1 TO OCTOBER 15.
6. PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THEY BORE TO THE EXISTING GRADE IN THE NURSERY.
7. THE TRUNK DIAMETER OF DECIDUOUS TREES SHALL BE MEASURED IN ACCORDANCE WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1) FOR THE CALIPER SIZE AS SHOWN IN THE PLANT MATERIAL LIST.
8. ALL DECIDUOUS TREES SHALL BE BRANCHED NOT LOWER THAN SEVEN (7) FEET WITH AN AVERAGE HEIGHT AND SPREAD FOR THE PARTICULAR SIZE AND SPECIES SPECIFIED, IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.
9. INSTALL A 2"-3" LAYER OF SHREDDED BARK MULCH IN ALL TREE PLANTING AREAS AND SHRUB BEDS. DO NOT PLACE MULCH DIRECTLY AGAINST TRUNKS OF TREES. FORM AN EARTH SAUCER AROUND EACH PLANT OR SHRUB BED SO AS TO HOLD WATER AND MULCH. PROVIDE SUFFICIENT IRRIGATION FOR ALL PLANT MATERIALS TO MAINTAIN HEALTHY AND VIGOROUS CONDITION UNTIL THE PROJECT IS ACCEPTED BY THE OWNER.
10. REMOVE TREE STAKES AND OTHER PLANTING GUIDE MATERIALS,IF SPECIFIED, AFTER ONE YEAR FROM THE TIME OF PLANTING.
11. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER PLANTING FOLLOWING ACCEPTANCE BY THE OWNER. UPON COMPLETION OF THE ONE YEAR PLANT GUARANTEE PERIOD, REPLACE ALL PLANT MATERIAL DEEMED DEAD, DYING OR DISEASED AS DETERMINED BY THE LANDSCAPE ARCHITECT. REPLACE PLANT WITH THE SAME SPECIES AND SIZE IMMEDIATELY DURING THE CURRENT GROWING SEASON OR AT THE BEGINNING OF THE NEXT GROWING SEASON.
12. UPON COMPLETION OF PLANTING OPERATION CULTIVATE AND NEATLY RAKE ALL PLANTING AREAS.
13. RESTORE ALL DISTURBED GRASS AREAS AND ALL AREAS NOT SPECIFICALLY IDENTIFIED FOR OTHER IMPROVEMENTS WITH 4 INCHES OF TOPSOIL AND SOD. PROVIDE SUFFICIENT MULCH AND IRRIGATION TO ESTABLISH AND MAINTAIN A HEALTHY STAND OF GRASS UNTIL PROJECT IS ACCEPTED BY THE OWNER.

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MARK	DATE	DESCRIPTION

STATE OF NEW YORK · MATTHEW RONALD MARTINEZ · 071569 · LICENSED PROFESSIONAL ENGINEER

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
MRM	JMT		

PROJECT No.	DATE	SCALE
LGTR 2001	OCTOBER 2020	AS SHOWN

CLIENT
DOMINICAN COLLEGE

ATHLETIC COMPLEX SYNTHETIC TURF FIELD

DOMINICAN COLLEGE

470 WESTERN HIGHWAY ORANGEBURG, NEW YORK 10962

SEC. 74.06, BLOCK 3, P/O LOTS 1.1 & 1.3

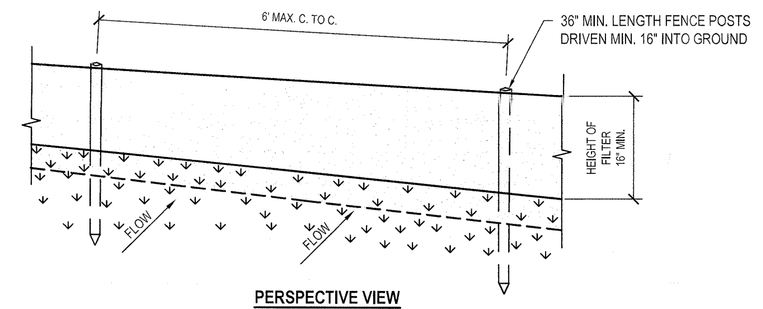
CONTRACT
ALL CONTRACTS

STATUS
REGULATORY REVIEW

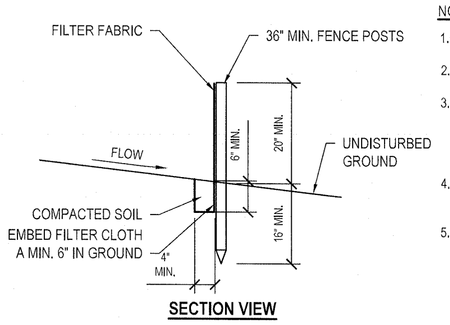
SHEET TITLE
PLANTING PLAN

DRAWING No.
C4.0

SHEET No. 4 OF 6



PERSPECTIVE VIEW



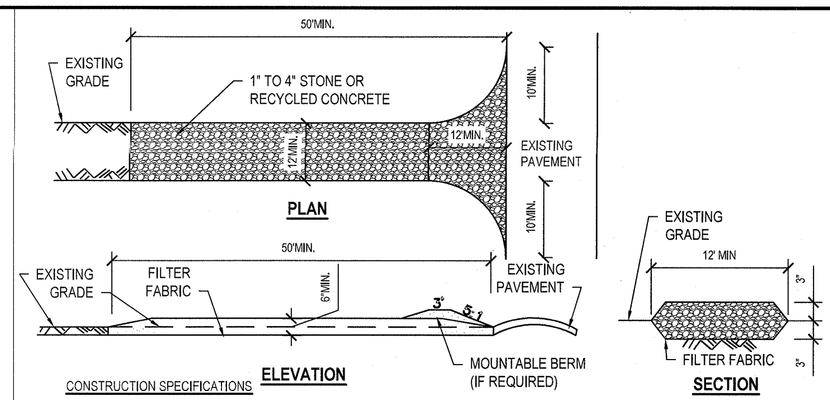
SECTION VIEW

NOTES

1. POSTS SHALL BE 2" X 2" HARDWOOD OR APPROVED EQUIVALENT.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED AND SECURE AT POST. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA 1140N, OR APPROVED EQUIVALENT.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND ACCUMULATED SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. REMOVE SILT FENCE UPON PERMANENT STABILIZATION OF UPLAND AREAS.

1 Silt Fence - Standard

SCALE: NTS 312513.13 NYDC1-U

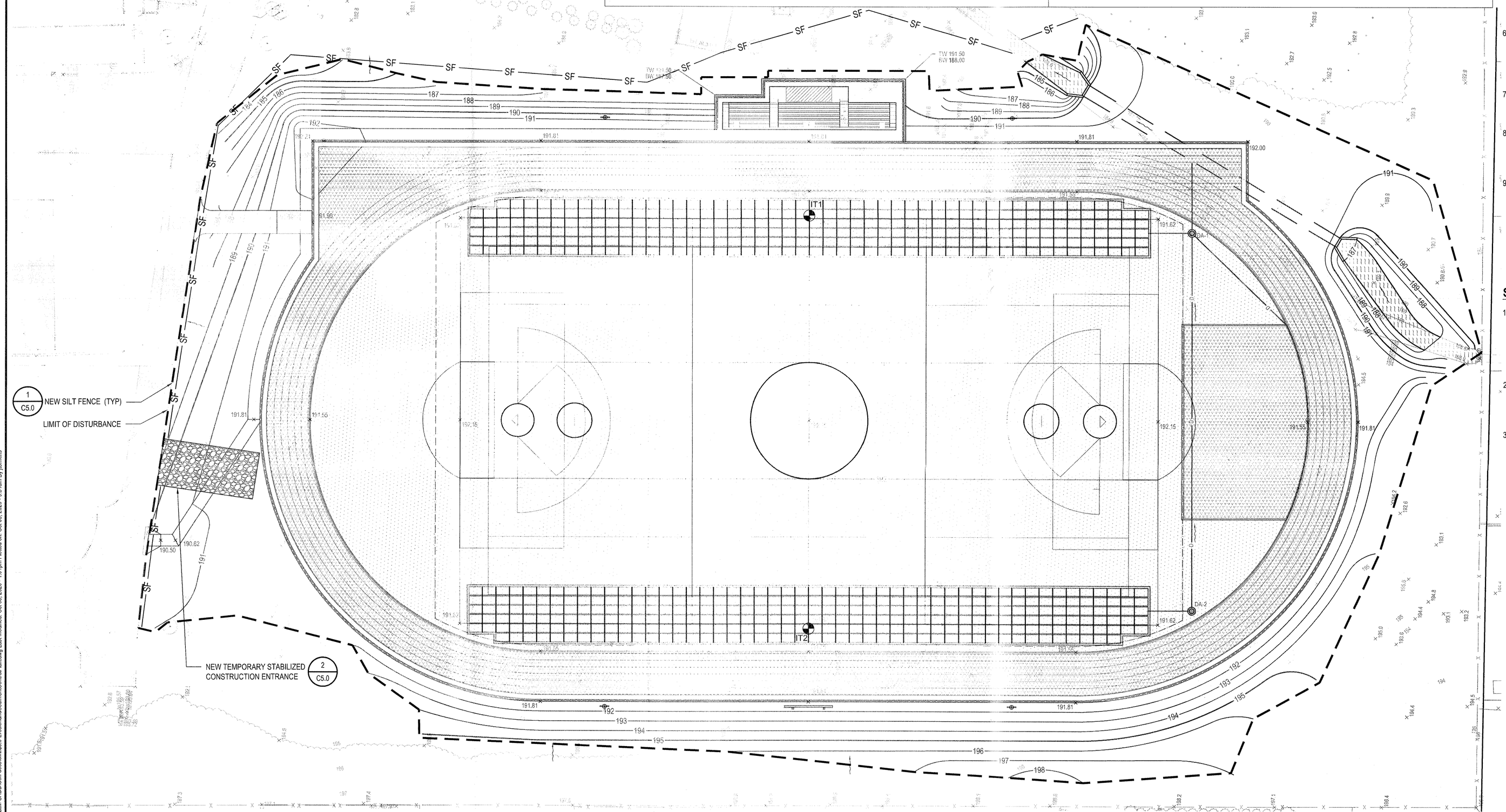


CONSTRUCTION SPECIFICATIONS

1. STONE OR RECYCLED CONCRETE SIZE TO BE 1" TO 4".
2. LENGTH - NOT LESS THAN 50 FEET (UNLESS INDICATED OTHERWISE ON PLANS).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. PLACE FILTER FABRIC OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER FABRIC TO BE TREVIRA SPUNBOND, 1135 MIRAFI 600X OR EQUIVALENT.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

2 Stabilized Construction Entrance

SCALE: NTS (312513.19 NYDC1) - U



LEGEND

DESCRIPTION	SYMBOL
NEW SILT FENCE	SF SF
LIMIT OF DISTURBANCE	
NEW STABILIZED CONSTRUCTION ENTRANCE	

EROSION CONTROL NOTES:

1. DURING THE COURSE OF CONSTRUCTION, EROSION AND SEDIMENT CONTROL MEASURES ARE NECESSARY TO PREVENT THE TRANSPORT OF SEDIMENT TO UNDISTURBED AREAS, PONDS, WATER COURSES, DRAINAGE SYSTEMS, RECHARGE BASINS, AND ROADS. THE MINIMUM EROSION CONTROL MEASURES REQUIRED ARE INDICATED ON THIS PLAN. IN ADDITION, THE FOLLOWING GENERAL CONDITIONS SHALL BE OBSERVED:
   a. EXISTING VEGETATION SCHEDULED TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED.
   b. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO PREVENT THE INCIDENTAL DISCHARGE OF SEDIMENT FROM THE SITE.
2. SPECIFIC METHODS AND MATERIALS EMPLOYED IN THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES MUST CONFORM TO THE LATEST EDITION OF THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".
3. INSTALL PROPRIETARY EROSION AND SEDIMENT CONTROL PRODUCTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
4. ADJUST EROSION AND SEDIMENT CONTROL MEASURES TO ACCOMMODATE CONSTRUCTION PHASING TO MAINTAIN EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES.
5. PROTECT EXISTING DRAINAGE INLETS WITHIN THE PROJECT LIMITS AND NEW DRAINAGE INLETS INSTALLED AS PART OF THIS PROJECT FROM SEDIMENT INTRUSION.
6. PERFORM INSPECTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES ON A WEEKLY BASIS AND AFTER HEAVY OR PROLONGED STORMS. MAINTENANCE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, CLEANING AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
7. UTILIZE APPROPRIATE MEANS TO CONTROL DUST DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO APPLYING WATER TO BARE SOIL SURFACES.
8. MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE TO PREVENT SOIL AND LOOSE DEBRIS FROM BEING TRACKED ONTO LOCAL ROADS. MAINTAIN THE CONSTRUCTION ENTRANCE WEEKLY UNTIL THE SITE IS PERMANENTLY STABILIZED.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED. AFTER PERMANENT STABILIZATION, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SITE AND DRAINAGE STRUCTURES.

TOTAL LAND DISTURBANCE = 4.81 ACRES

STORMWATER POLLUTION PREVENTION PLAN NOTES:

1. PURSUANT TO THE REQUIREMENTS OF SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITY GP-0-15-002 ESTABLISHED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR THIS PROJECT. ADHERE TO AND IMPLEMENT ALL REQUIREMENTS OF THE SWPPP AND EROSION AND SEDIMENT CONTROL PLAN.
2. REVIEW THE SWPPP AND SIGN IN THE LOCATION SHOWN STATING THAT ALL WORK PERTAINING TO EROSION AND SEDIMENT CONTROL WILL BE PERFORMED WITHIN REQUIREMENTS OF THE SWPPP AND EROSION AND SEDIMENT CONTROL PLAN.
3. THE OWNER SHALL PROVIDE A QUALIFIED INSPECTOR WHO WILL PERFORM WEEKLY INSPECTIONS AT THE CONSTRUCTION SITE. THE QUALIFIED INSPECTOR SHALL MEET THE REQUIREMENTS OUTLINED IN SPDES GENERAL PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITY (GP-0-15-002). IF THE INSPECTIONS FIND ANY DEVIATIONS FROM THE SWPPP OR THE EROSION AND SEDIMENT CONTROL PLAN IT WILL BE NOTED. THE CONTRACTOR WILL HAVE 7 DAYS TO CORRECT ANY DEVIATIONS SO THAT IT COMPLIES WITH THE REQUIREMENTS OF THE SWPPP AND OR EROSION AND SEDIMENT CONTROL PLAN. IN THE EVENT THAT MORE THAN 5 ACRES OF SOIL IS DISTURBED AT ANY TIME, 2 WEEKLY INSPECTIONS WILL BE PERFORMED.

GRAPHIC SCALE

30 0 15 30

(IN FEET)
1 inch = 30 ft.

APPLICANT

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SEC. 74.06, BLOCK 3, P/O LOTS 1.1 & 1.3

CONTRACT

ALL CONTRACTS

STATUS

REGULATORY REVIEW

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN

DRAWING No. **C5.0**

SHEET No. 5 OF 6

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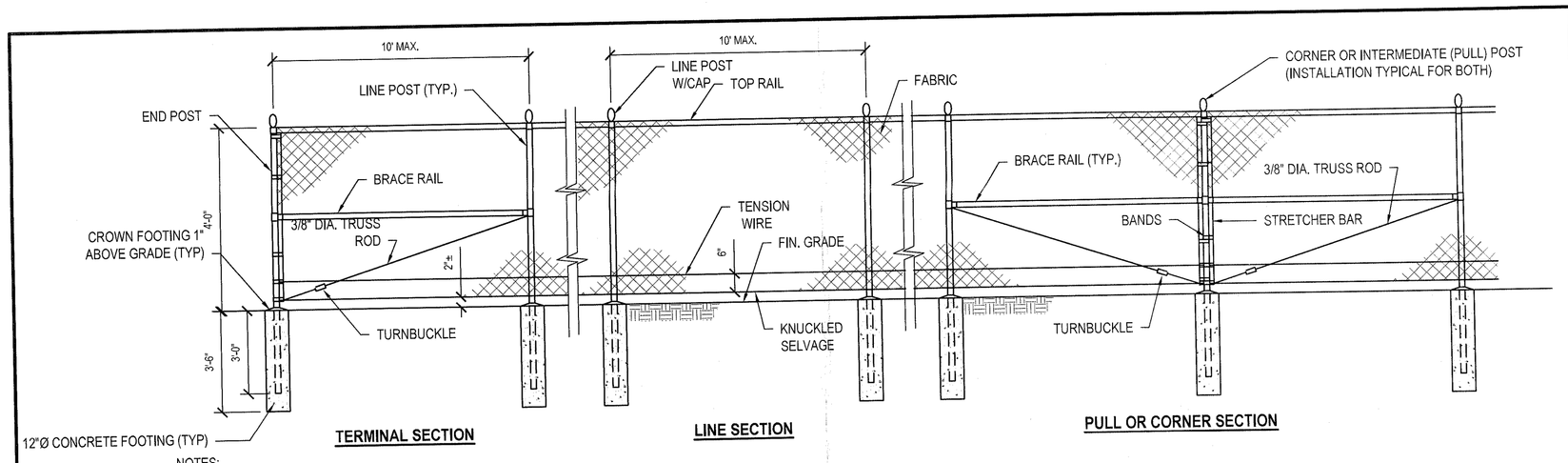
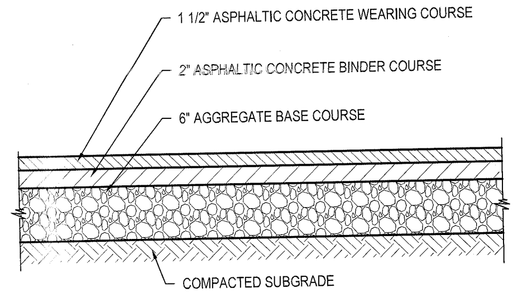


NOTES:

1. FABRIC: ASTM A392, 2" MESH, 9 GAUGE STEEL CORE CHAIN LINK FENCE FABRIC, ASTM A641 GALVANIZED STEEL CORE WIRE, ZINC COATED TO 0.3 OZ/SF WITH 7-12 MIL PVC COATING IN ACCORDANCE WITH ASTM F668 CLASS 2B.
2. TOP AND BRACE RAILS: ASTM F1043 1.66" O.D. (1.84 LBS./FT.) SS40 STEEL PIPE. HOT DIPPED GALVANIZED TO 1.8 OZ/SF IN ACCORDANCE WITH ASTM A123. SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1043
3. LINE POSTS: ASTM F1043 1.9" O.D. (2.28 LBS./FT.) SS40 STEEL PIPE. HOT DIPPED GALVANIZED TO 1.8 OZ/SF IN ACCORDANCE WITH ASTM A123 .SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1043.
4. END, CORNER & PULL POSTS: ASTM F1043 2.375" O.D. (3.12 LBS./FT.) SS40 STEEL PIPE. HOT DIPPED GALVANIZED TO 1.8 OZ/SF IN ACCORDANCE WITH ASTM A123. SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1043.
5. FITTINGS AND ACCESSORIES: ASTM F626 MALLEABLE OR PRESSED STEEL. HOT DIPPED GALVANIZED TO 1.2 OZ/SF, SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1043.
6. BOTTOM TENSION WIRE: ASTM A824 NO. 7 GAUGE STEEL-MARCELLED WIRE, ZINC COATED TO 0.4 OZ/SF WITH 7-12 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1664.
7. VINYL COATING COLOR: TO BE SELECTED BY OWNER.
8. CONCRETE TO ACHIEVED 4000 PSI STRENGTH AT 28 DAYS.

1 Chain Link Fence - Vinyl Coated - 4' Height

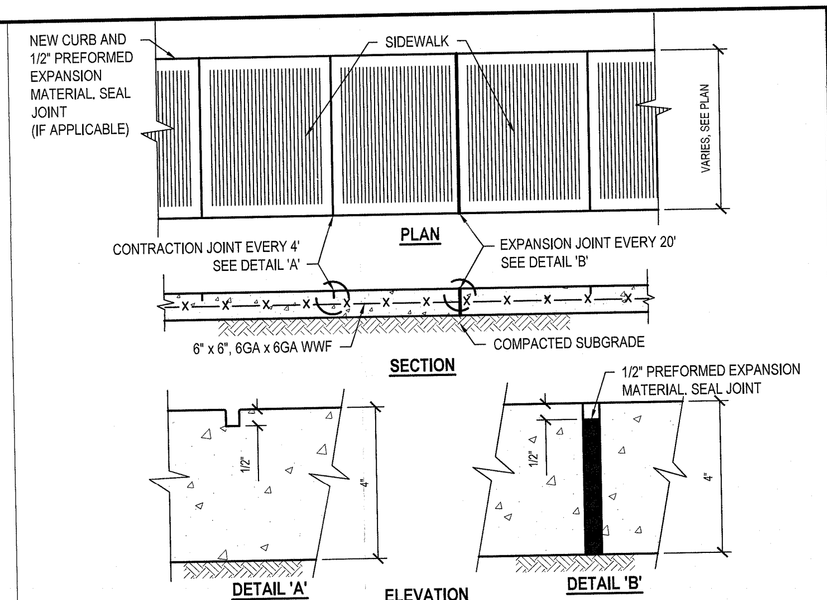
SCALE: NTS (323113.15 H2MX1)



NOTE:
COMPACT SUBGRADE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

2 Asphalt Pavement - Standard Duty

SCALE: NTS (321216.13 H2MX1) - U

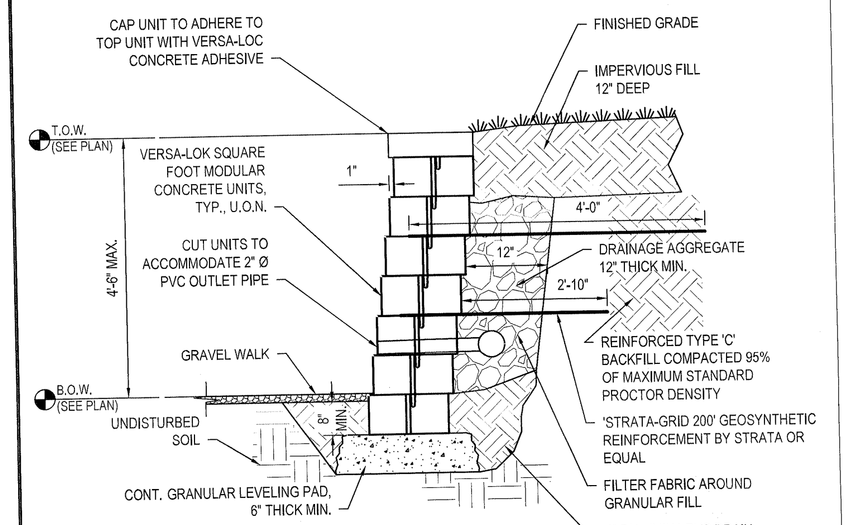


NOTES:

1. CONCRETE TO ACHIEVE 4000 PSI STRENGTH AT 28 DAYS
2. COMPACT SUBGRADE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
3. APPLY BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.

3 Concrete Sidewalk

SCALE: NTS (321313.33 H2MX1) - U

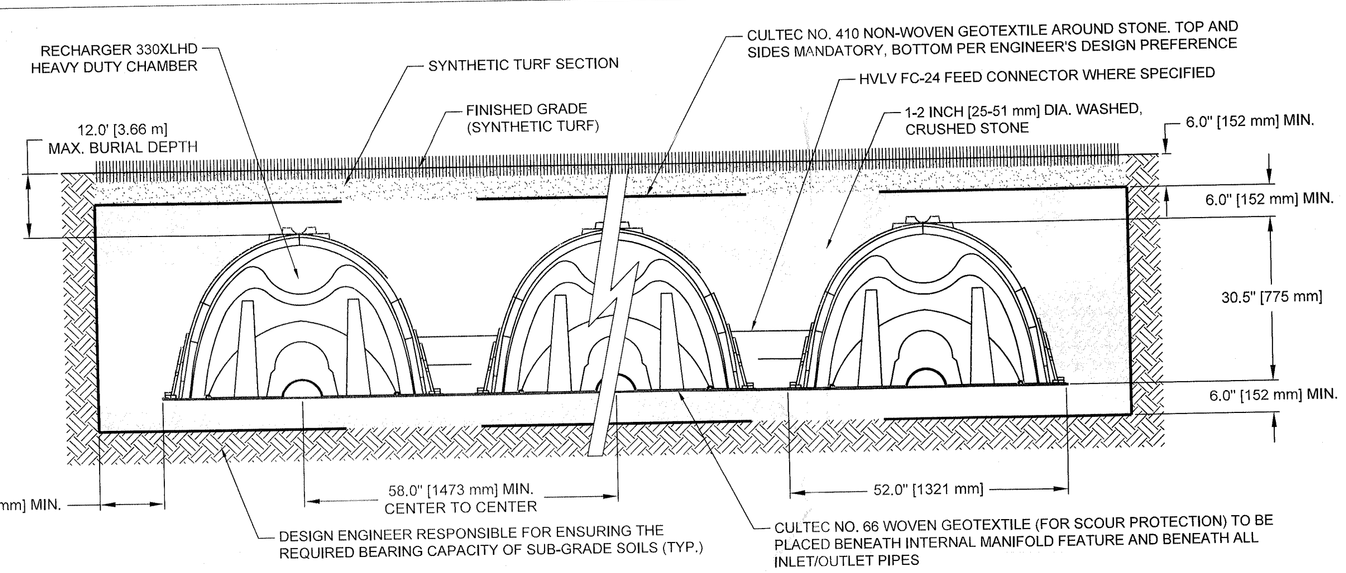


NOTES:

1. WALLS LESS THAN 2'-0" IN HEIGHT DO NOT REQUIRED GEOSYNTHETIC REINFORCEMENT.
2. DESIGN SHOWN IS BASED ON VERSA-LOK SQUARE FOOT MODULAR UNITS. IF SUBSTITUTION IS DESIRED, CONTRACTOR SHALL SUBMIT PRODUCT DATA WITH CALCULATIONS SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF NEW YORK

4 Retaining Wall Section

NTS

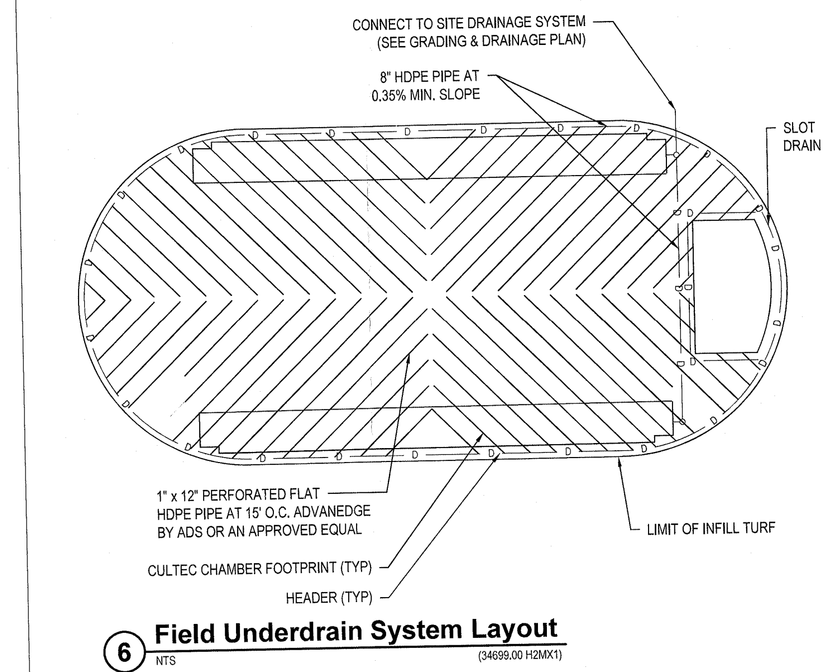


NOTES:

1. LINEAR LEACHING CHAMBERS SHALL BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS. UTILIZE CULTEC PRODUCTS, OR APPROVED EQUAL.
2. LINEAR LEACHING CHAMBER EXCAVATION SHALL EXTEND DOWN TO VIRGIN STRATA OF CLEAN SAND, OR SAND AND GRAVEL. ALL UNSUITABLE SOIL ENCOUNTERED BELOW THE BOTTOM ELEVATION OF THE PROPOSED CHAMBERS SHALL BE REMOVED AND REPLACED WITH 3/4" GRAVEL. ONLY THE FIRST 6" OF GRAVEL FILL BELOW THE LEACHING CHAMBERS SHALL BE CREDITED TOWARD ACCUMULATED STORAGE.
3. FILTER FABRIC TO BE INSTALLED BETWEEN SAND AND GRAVEL LAYER AND ALONG SIDES OF TRENCH

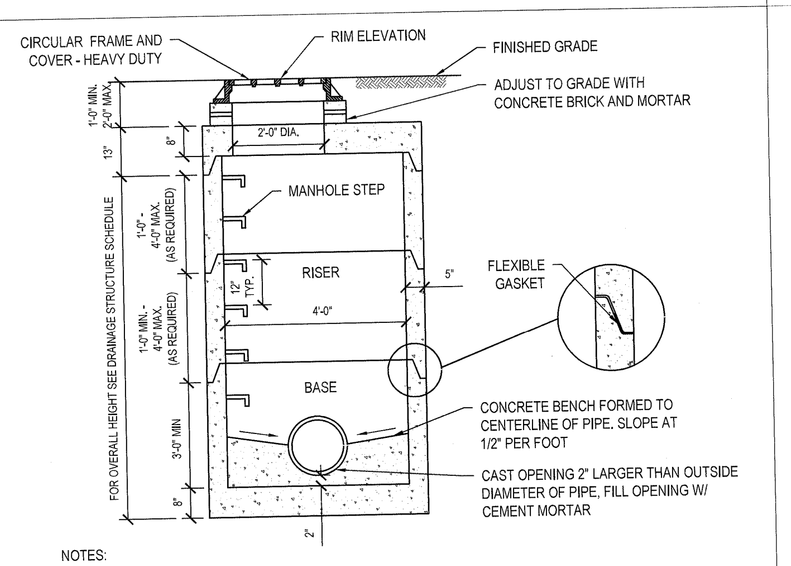
5 Linear Leaching Chamber

NTS



6 Field Underdrain System Layout

NTS (34699.00 H2MX1)

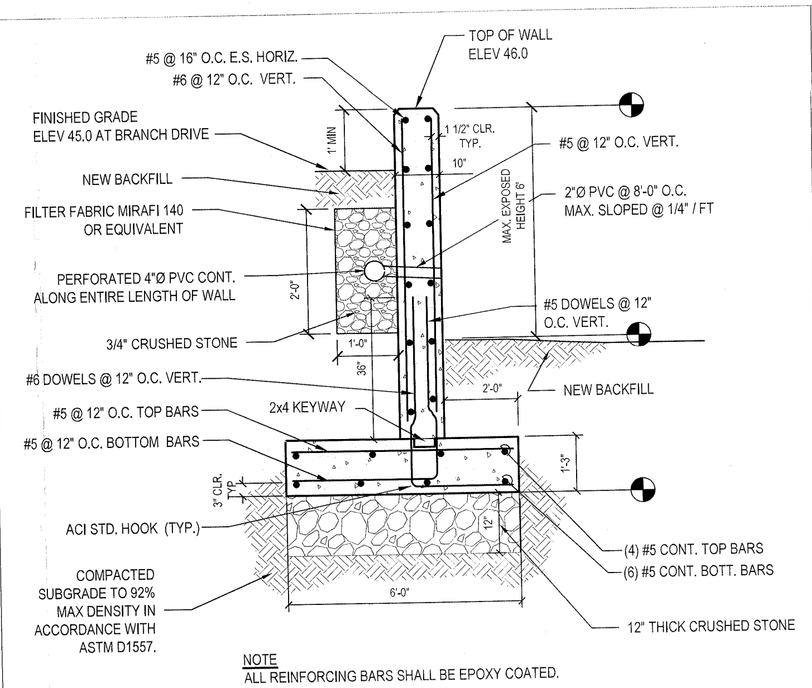


NOTES:

1. MANHOLE IS TO BE REINFORCED PRECAST CONCRETE AND CAPABLE OF SUPPORTING THE AASHTO HS-20 HIGHWAY LOADING.
2. MANHOLE CONSTRUCTION TO CONFORM TO ASTM C913
3. PROVIDE ADDITIONAL RISERS AS REQUIRED.
4. FLEXIBLE GASKET TO CONFORM TO THE REQUIREMENTS OF ASTM C990.

7 Drainage Manhole - 4 Foot Diameter

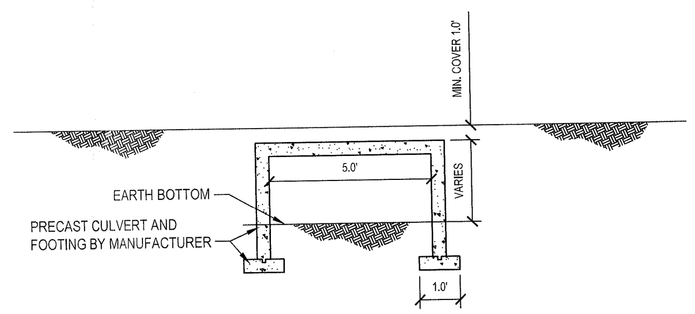
SCALE: NTS (334913.13 H2MX1)



NOTE
ALL REINFORCING BARS SHALL BE EPOXY COATED.

8 Concrete Headwall Section

NTS



9 Open-Bottom Concrete Box Culvert

NTS

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CONTRACT: **ALL CONTRACTS**

STATUS: **REGULATORY REVIEW**

SHEET TITLE: **SITE DETAILS**

DRAWING No. **C6.0**

SHEET No. 6 OF 6

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