

EMPIRE STATE YOUTH ORCHESTRA MACARTHUR RENOVATION PHASE 2



TOWN OF GLENVILLE & VILLAGE OF SCOTIA SCHENECTADY COUNTY, NEW YORK

MARCH 20, 2023

TAX PARCEL NUMBERS:

TOWN OF GLENVILLE,
SCHENECTADY COUNTY, NEW YORK
SBL: 29.16 - 1 - 50.111

VILLAGE OF SCOTIA, SCHENECTADY
COUNTY, NEW YORK
SBL: 29.67 - 1 - 1

BULK TABLE - ZONING REQUIREMENTS:				
MUNICIPALITY:	TOWN OF GLENVILLE	VILLAGE OF SCOTIA		
ZONING DISTRICT:	SUBURBAN RESIDENTIAL	SINGLE FAMILY RESIDENTIAL (5,000 SF)		
PARCEL SBL:	29.16-1-50.111 (±5.7 ACRES)	29.67-1-1 (±2.9 ACRES)		
LOT STYLE:	THROUGH LOT	THROUGH LOT		
APPLICABLE USE CATEGORY:	NON-PROFIT RECREATION FACILITY*	N/A		
	REQUIRED	REQUIRED	EXISTING (WHOLE LOT)	PROPOSED (WHOLE LOT)
MINIMUM LOT AREA:	40,000 SF (0.92 AC)	5,000 SF (0.11 AC)	±8.6 AC**	±8.6 AC**
MINIMUM LOT WIDTH:	140 FT	50 FT	678 FT ***	678 FT ***
MAXIMUM LOT COVERAGE:	30%	30%	5.93%	5.93%
MAXIMUM BUILDING HEIGHT:	35 FT	35 FT	23'-4"	29'-4"
MINIMUM LOT DEPTH:	180 FT	100 FT	±508'	±508'
FRONT SETBACK:	35 FT	20 FT	±154 FT	±106 FT
SIDE SETBACK:	30 FT	8 FT	±129 FT	±76 FT
REAR SETBACK:	40 FT	25 FT	N/A (THROUGH)	N/A (THROUGH)

* CLOSEST APPLICABLE USE WITH DEFINED BULK STANDARDS
** PROPERTY BOUNDARY IS SPLIT BY THE MUNICIPAL LIMITS OF THE TOWN OF GLENVILLE AND VILLAGE OF SCOTIA
*** MEASURED AT THE PRIMARY SITE ENTRANCE FROM MACARTHUR DRIVE

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APPLICANT:
EMPIRE STATE YOUTH ORCHESTRA
432 STATE STREET
SCHENECTADY, NY 12305



TOWN OF GLENVILLE PLANNING & ZONING COMMISSION APPROVAL	VILLAGE OF SCOTIA PLANNING BOARD APPROVAL
PZC CHAIRMAN SIGNATURE	PB CHAIRMAN SIGNATURE

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.		NO.1	REVISIONS	NO.2	REVISIONS	PROJECT CIVIL ENGINEER:  Greenman-Pedersen, Inc. 80 Wolf Road, Suite 300 Albany, NY 12205 518.463.9431 CPIN31.COM	PROJECT ARCHITECT:  52 James Street Albany, New York 12207 P 518.462.1848 F 518.462.2529 www.envisionarchitects.com	PROJECT STRUCTURAL ENGINEER:  Dalto Engineering 7 Maureen Court Clifton Park, NY 12065 P 518.466.3317	OWNER/APPLICANT: EMPIRE STATE YOUTH ORCHESTRA MACARTHUR RENOVATION PHASE 2 TOWN OF GLENVILLE AND VILLAGE OF SCOTIA SCHENECTADY COUNTY, NEW YORK	DESIGNED BY: A. JOHNSON DRAFTED BY: A. JOHNSON CHECKED BY: J. MONTAGNE	APPROVED BY: J. MONTAGNE DATE: 03/20/2023 GPI PROJECT NO. ALB-2200103.02	SHEET TITLE: COVER SHEET	SHEET NUMBER: G-101
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EXISTING CONDITIONS NOTES:

GENERAL NOTES:

1. UNDERGROUND FACILITIES AND STRUCTURES SHOWN HEREON WERE TAKEN FROM DATA OBTAINED FROM PREVIOUS MAPS AND RECORD DRAWINGS. ALL ABOVE GROUND STRUCTURES AND SURFACE FEATURES SHOWN HEREON ARE THE RESULT OF A FIELD SURVEY UNLESS OTHERWISE NOTED. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN OR CERTIFIED BY THE UNDERSIGNED. THE SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION MUST BE NOTIFIED PRIOR TO CONDUCTION TEST BORINGS, EXCAVATION AND CONSTRUCTION.

SURVEY REFERENCE:

1. "BOUNDARY & TOPOGRAPHIC SURVEY OF THE LANDS OF EMPIRE STATE YOUTH ORCHESTRA, INC." PREPARED BY AUSFELD & WALDRUFF LAND SURVEYORS LLP, DATED SEPTEMBER 16, 2022.

TAX PARCEL INFORMATION:

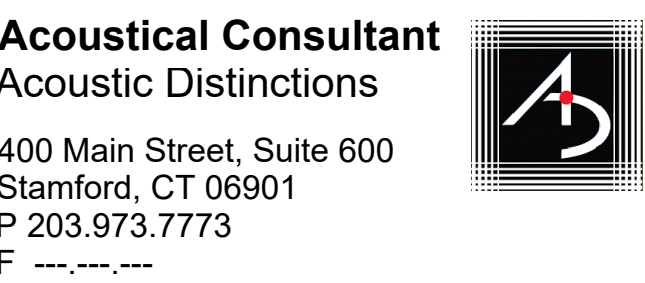
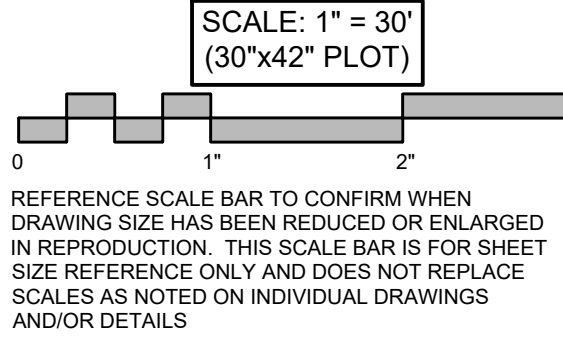
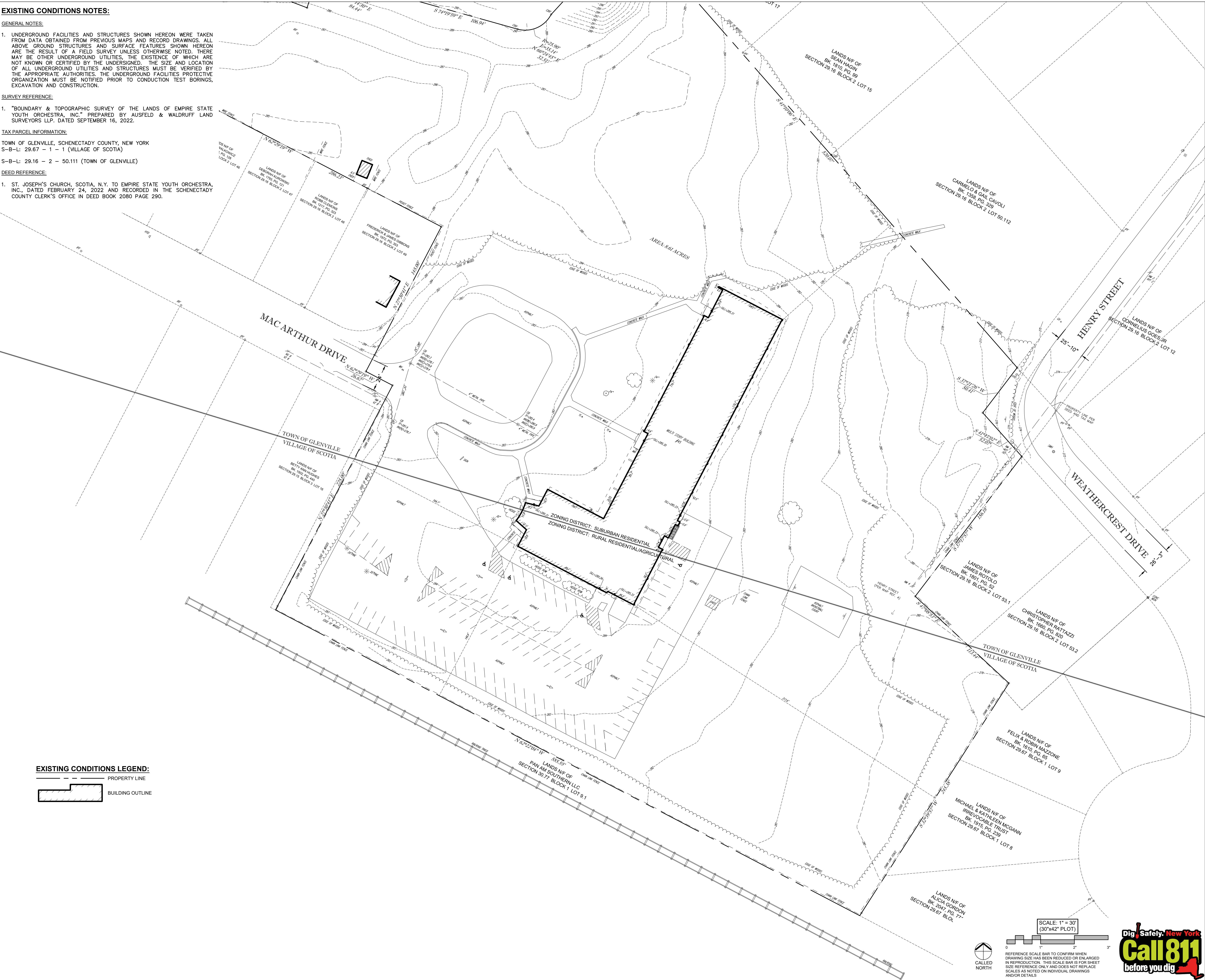
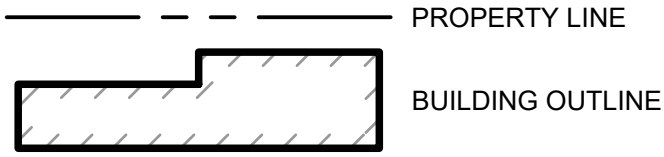
TOWN OF GLENVILLE, SCHENECTADY COUNTY, NEW YORK
S-B-L: 29.67 - 1 - 1 (VILLAGE OF SCOTIA)

S-B-L: 29.16 - 2 - 50.111 (TOWN OF GLENVILLE)

DEED REFERENCE:

1. ST. JOSEPH'S CHURCH, SCOTIA, N.Y. TO EMPIRE STATE YOUTH ORCHESTRA, INC., DATED FEBRUARY 24, 2022 AND RECORDED IN THE SCHENECTADY COUNTY CLERK'S OFFICE IN DEED BOOK 2080 PAGE 290.

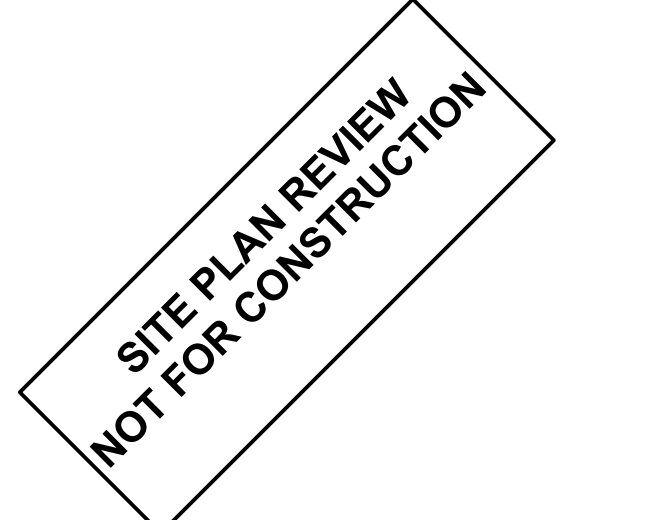
EXISTING CONDITIONS LEGEND:



SEAL:



ESYO MacArthur Renovation - Phase 2
45 MacArthur Drive, Schenectady, NY



No.	Description	Date

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EXISTING CONDITIONS PLAN

C-100.2
SITE PLAN REVIEW ALB-2200103.02 SCALE: AS INDICATED 03/20/2023

DEMOLITION NOTES:

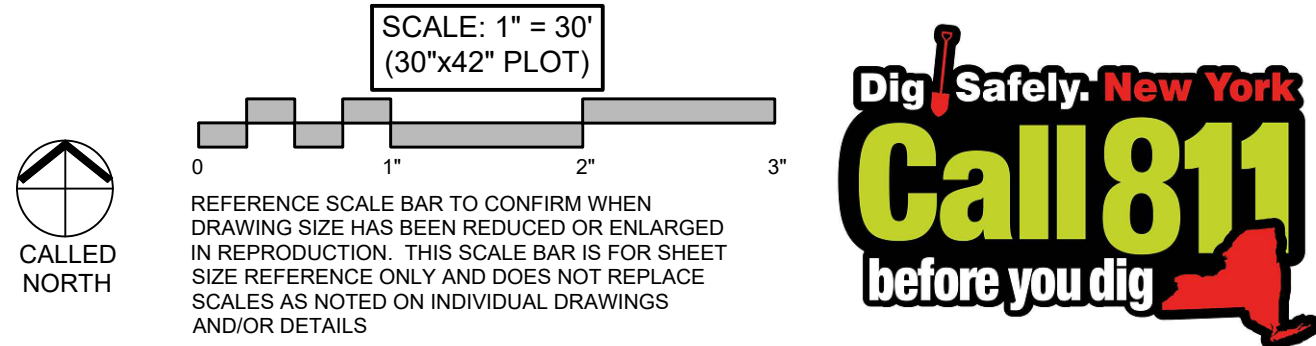
1. REFER TO REQUIREMENTS OUTLINED IN THE EROSION & SEDIMENT CONTROL PLANS & NOTES PRIOR TO COMMENCEMENT OF WORK.
2. CONFORM TO APPLICABLE CODE AND PERMIT REQUIREMENTS FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND HAULING, DISPOSAL AND STORAGE OF DEBRIS.
3. PROVIDE, ERECT AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES AS REQUIRED.
4. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECT DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
5. NOTIFY ADJACENT OWNERS OF WORK THAT MAY AFFECT THEIR PROPERTY, POTENTIAL NOISE, UTILITY OUTAGE, OR DISRUPTION. COORDINATE WITH OWNER.
6. LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA. DISCONNECT AND SEAL OR CAP OFF UTILITY SERVICES THAT WILL BE AFFECTED BY THIS PROJECT. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED.
7. DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL MANNER.
8. PROTECT EXISTING FEATURES THAT ARE NOT TO BE DEMOLISHED.
9. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.
10. MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS OR SIDEWALK WITHOUT PERMITS. COORDINATE WITH AUTHORITY HAVING JURISDICTION.
11. CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION.
12. ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE GRADES AND CONTOURS, AND PROVIDE POSITIVE DRAINAGE.
13. ALL SAWCUT LINES SHALL BE PARALLEL AND CURVILINEAR TO EXISTING OR PROPOSED CURBING AND SHALL BE A CONSTANT DISTANCE OF 18" MIN AWAY UNLESS OTHERWISE NOTED.
14. FIELD VERIFY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED ON DEMOLITION PLAN TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
15. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH SELECTIVE BUILDING DEMOLITION OPERATIONS.
16. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
17. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION, SUCH AS CAUSING ICING, FLOODING, AND TRANSPORTING POLLUTANTS.
18. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
19. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. ALL DEBRIS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE AT A FACILITY APPROVED TO RECEIVE THE DEBRIS. DO NOT LOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. DO NOT BURN DEMOLISHED MATERIALS ON-SITE.
20. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
21. IF SUSPICIOUS AND/OR HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION/CONSTRUCTION, ALL WORK SHALL STOP AND THE GOVERNING COUNTY'S HEALTH DEPARTMENT AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SHALL BE NOTIFIED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE DEVELOPER HAS OUTLINED APPROPRIATE ACTION FOR DEALING WITH THE WASTE MATERIAL AND THE DEVELOPMENT PLANS ARE MODIFIED AS MAY BE NECESSARY.
22. ALL EXISTING LAWN AREA, CURBING, PAVING, SIDEWALKS, CULVERTS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AOBE). MAILBOXES, SIGN POSTS, ETC SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOINT. REMOVE PAVEMENT AND REPLACE TO SAW CUT LINE, SAW CUT IN STRAIGHT LINE TO POINT NEEDED TO BLEND GRADE, REMOVE LAWN AND REPLACE TO MINIMUM LIMIT OF EXCAVATION.
23. THE CONTRACTOR SHALL NOT LEAVE OPEN ANY HOLES OR TRENCHES OVERNIGHT OR DURING ANY TIME NOT ACTIVELY WORKING ON THE PROJECT IN AREAS OF PUBLIC ACCESS.

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, PERMITS, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
2. NOTIFY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
3. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW FROM THE ENGINEER.
4. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
5. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY.
6. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES.
7. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION. A DETAILED MAINTENANCE AND PROTECTION OF TRAFFIC PLAN SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER AND GOVERNING MUNICIPALITY BEFORE BEGINNING CONSTRUCTION.

DEMOLITION LEGEND:

- PROPERTY LINE
--- DISTURBANCE LIMITS
--- EXISTING BUILDING OUTLINE
--- SAWCUT LINE
--- EXISTING PAVEMENT AREA TO BE REMOVED
--- CLEAR AND GRUB EXISTING VEGETATION
⊗ EXISTING TREE TO BE REMOVED



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esyō EMPIRE STATE
YOUTH ORCHESTRA

**ESYO MacArthur
Renovation - Phase 2**
45 MacArthur Drive, Schenectady, NY

**SITE PLAN REVIEW
NOT FOR CONSTRUCTION**

No.	Description	Date

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DEMOLITION PLAN
C-101.2
SITE PLAN REVIEW
ALB-2200103.02
SCALE: AS INDICATED
03/20/2023

LAYOUT:

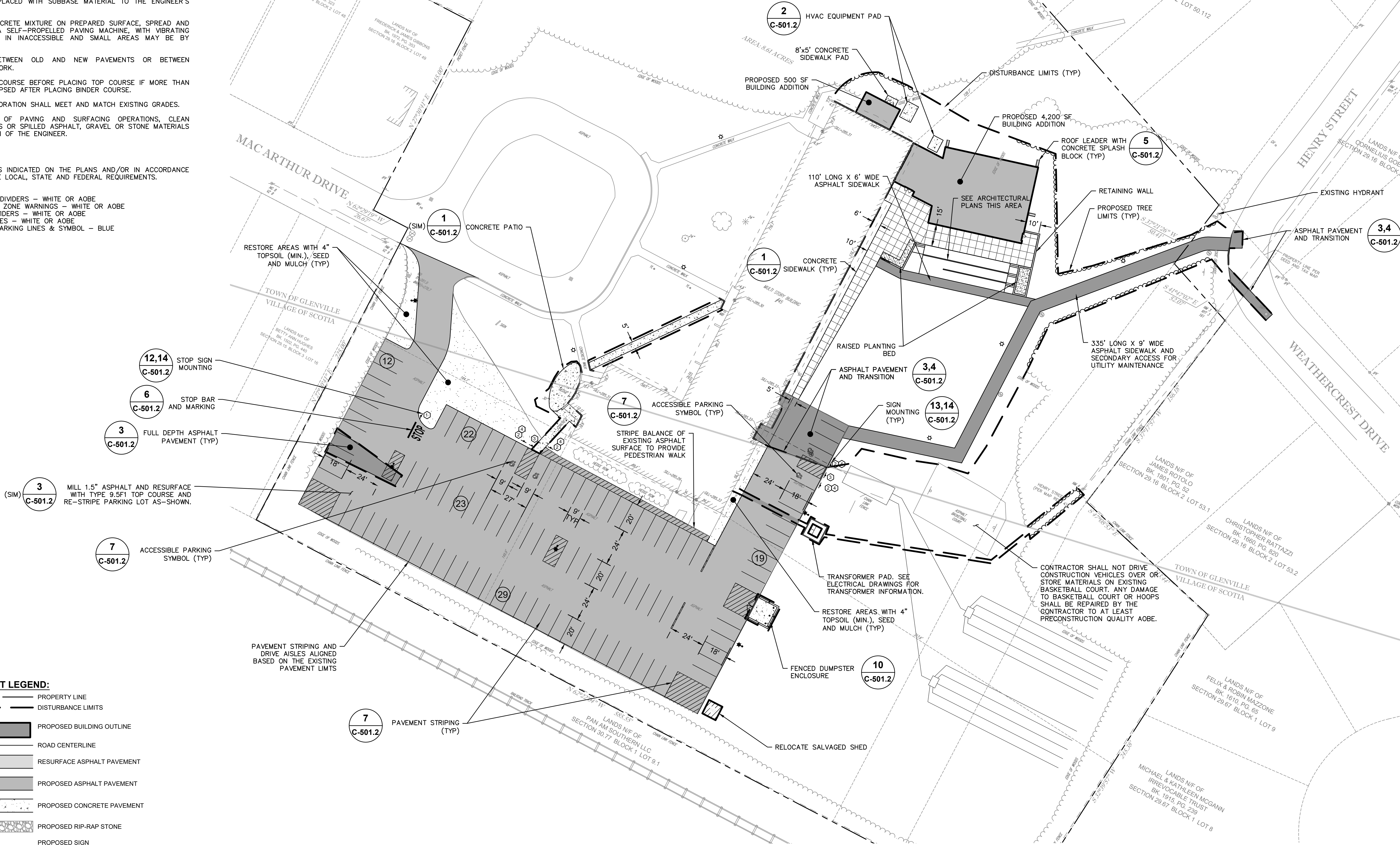
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR PRECISE BUILDING DIMENSIONS AND APPURTENANCES.
3. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER/ARCHITECT AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER/ARCHITECT AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.

PAVING:

1. NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE GRADED, COMPACTED, AND IS READY FOR PAVING. SUBBASE MATERIAL, SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
2. SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 1, 2018, INCLUDING ALL REVISIONS AND ADDENDUMS. CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
3. PROOF ROLLING OF SUBGRADE SHALL BE WITNESSED BY THE ENGINEER. ALL UNSATISFACTORY AREAS, AS DETERMINED BY THE ENGINEER SHALL BE EXCAVATED AND REPLACED WITH SUBBASE MATERIAL TO THE ENGINEER'S SATISFACTION.
4. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH VIBRATING SCREED. PLACEMENT IN INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.
5. PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE DAYS WORK.
6. TACK COAT BINDER COURSE BEFORE PLACING TOP COURSE IF MORE THAN 48 HOURS HAVE ELAPSED AFTER PLACING BINDER COURSE.
7. ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES.
8. AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.

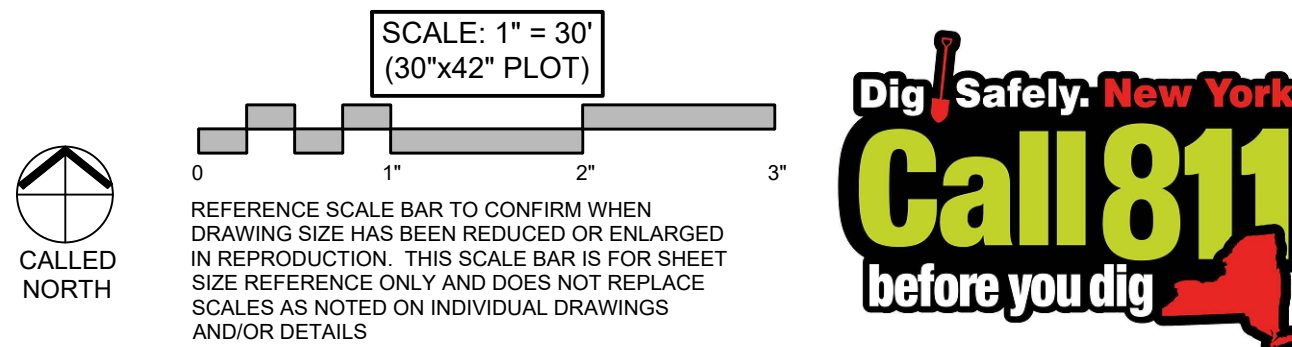
STRIPING:

1. STRIPE PAVEMENT AS INDICATED ON THE PLANS AND/OR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
2. COLOR:
 - DRIVE LANE DIVIDERS - WHITE OR AOBE
 - NO PARKING ZONE WARNINGS - WHITE OR AOBE
 - PARKING DIVIDERS - WHITE OR AOBE
 - WALKING LINES - WHITE OR AOBE
 - HANDICAP PARKING LINES & SYMBOL - BLUE



SITE LAYOUT LEGEND:

- PROPERTY LINE
- DISTURBANCE LIMITS
- PROPOSED BUILDING OUTLINE
- ROAD CENTERLINE
- RESURFACE ASPHALT PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED RIP-RAP STONE
- PROPOSED SIGN
- PROPOSED PARKING COUNT



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REGISTERED PROFESSIONAL ENGINEER
No. 321

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**ESYO MacArthur
Renovation - Phase 2**
45 MacArthur Drive, Schenectady, NY

**SITE PLAN REVIEW
NOT FOR CONSTRUCTION**

No.	Description	Date

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SITE LAYOUT PLAN
C-102.2

SITE PLAN REVIEW ALB-2200103.02 SCALE: AS INDICATED 03/20/2023

- GRADING NOTES:**
1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
 2. IF BEDROCK IS ENCOUNTERED, BLASTING MUST RECEIVE LOCAL APPROVAL, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
 3. REMOVE ALL VEGETATION, TREES, STUMPS, GRASSES, ORGANIC SOILS, DEBRIS AND DELETERIOUS MATERIALS WITHIN THE AREAS SLATED FOR CONSTRUCTION.
 4. STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL TO BE STORED, SCREENED AND THEN REUSED IN LAWN AND PLANTING AREAS ONLY. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN. EXCESS TOPSOIL TO BE REMOVED. ENSURE 4" MIN QUANTITY OF SOILS RETAINED AND/OR IMPORT TOPSOILS AS NEEDED TO MEET THE MINIMUM 4" THICKNESS.
 5. BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. ORNAMENTAL TREES, SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND RE-PLANTED IN AS GOOD OF CONDITION AS THEY WERE PRIOR TO THEIR REMOVAL. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 6. ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.
 7. ALL EXISTING SURFACE APPURTENANCES (I.E. WATER VALVES, CATCH BASIN FRAMES AND GRADES, MANHOLE COVERS) WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO FINISH GRADE FLUSH. AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECT'S CONSTRUCTION THAT ARE OUTSIDE OF THE PRIMARY WORK AREA SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
 8. SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING. BACKFILL EXCAVATION AS PROMPTLY AS WORK PERMITS, BUT NOT WITHOUT ACCEPTANCE BY ENGINEER OF CONSTRUCTION BELOW FINISH GRADE.
 9. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH. FILL MATERIAL SHALL BE FREE FROM DEBRIS, VEGETATION AND DELETERIOUS MATERIAL. COMPACT ALL TRENCH BACKFILL TO 95% STANDARD PROCTOR.
 10. GRAVEL AND SUB-BASE SHALL BE LAID IN 6" LIFTS AND SHALL CONFORM TO THE TYPICAL SECTION FOR PAVEMENT. ALL HOLES AND DEPRESSIONS SHALL BE FILLED WITH GRAVEL AND RE-ROLLED.



- ABBREVIATIONS:**
- TF TOP OF FRAME
 - HP HIGH POINT
 - LP LOW POINT
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - INV INVERT
 - ME MATCH EXISTING
 - TW TOP OF RETAINING WALL
 - BW BOTTOM OF RETAINING WALL

- GRADING LEGEND:**
- PROPERTY LINE
 - DISTURBANCE LIMITS
 - SWALE LINE
 - PROPOSED RIP-RAP STONE
 - 125 MAJOR CONTOUR
 - 124 MINOR CONTOUR
 - 124.75 SPOT ELEVATION

SCALE: 1" = 30'
(30"x42" PLOT)

REFERENCE SCALE BAR TO CONFIRM WHEN DRAWING SIZE HAS BEEN REDUCED OR ENLARGED IN REPRODUCTION. THIS SCALE BAR IS FOR SHEET SIZE REFERENCE ONLY AND DOES NOT REPLACE SCALES AS NOTED ON INDIVIDUAL DRAWINGS AND/OR DETAILS

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STATE OF NEW YORK
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esyō EMPIRE STATE
YOUTH ORCHESTRA

ESYO MacArthur Renovation - Phase 2
45 MacArthur Drive, Schenectady, NY

SITE PLAN REVIEW NOT FOR CONSTRUCTION

No.	Description	Date

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GRADING PLAN

C-103.2

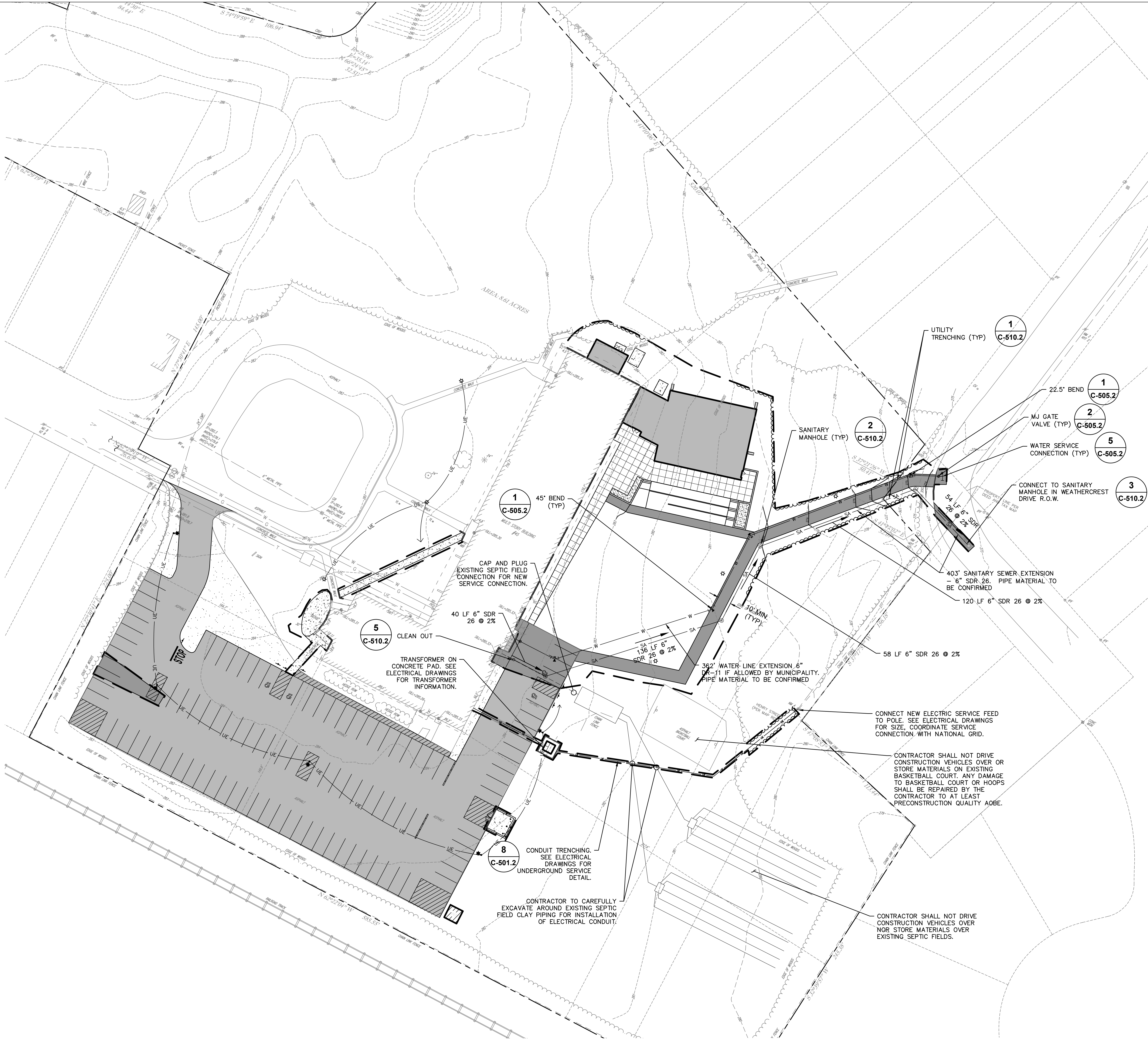
SITE PLAN REVIEW ALB-2200103.02 SCALE: AS INDICATED 03/20/2023

UTILITY NOTES:

1. ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION AND INVERTS IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
3. ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION IS TO PROCEED.
4. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION ON ANY UTILITY CONNECTIONS/EXTENSIONS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE FOR THE DURATION OF THE WORK.
7. CONTRACTOR TO VERIFY STATUS OF ALL UTILITY SERVICES PRIOR TO INTERRUPTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
9. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER.
10. ALL PROPOSED UTILITIES SHALL TERMINATE 5 FEET FROM ANY PROPOSED BUILDING FACE. CONTRACTOR TO COORDINATE WITH BUILDING PLANS FOR ANY CONNECTIONS.
11. SEWER MAINS IN RELATION TO WATER MAINS: SEWERS SHALL BE LAID AT LEAST 10 (TEN) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE 18 (EIGHTEEN) INCHES BETWEEN TOP OF SEWER AND BOTTOM OF THE WATER MAIN AT UTILITY CROSSINGS. WHEN NOT POSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, SEWER PIPE SHALL BE PRESSURE RATED AND TESTED @ 150 PSI, 10 (TEN) FEET ON EACH SIDE OF THE WATER MAIN BEING CROSSED. SEE DETAIL 3 AND 4 ON SHEET C-505.2.
12. ALL GRAVITY SANITARY SEWER SHALL BE SDR-26 PVC UNLESS OTHERWISE SPECIFIED, OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
13. ALL WATER PIPE SHALL BE DR-11 HDPE PIPE, OR CLASS 52 DUCTILE IRON PIPE IF REQUIRED BY AHJ.

UTILITY LEGEND:

- PROPERTY LINE
- DISTURBANCE LIMITS
- SWALE LINE
- ST STORM PIPE
- SA SANITARY PIPE
- W WATER LINE
- UE UNDERGROUND ELECTRIC
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED CLEANOUT
- FIRE HYDRANT
- PROPOSED WATER VALVE
- UTILITY POLE
- PROPOSED LIGHT POST



SCALE: 1" = 30'
(30"x42" PLOT)

REFERENCE SCALE BAR TO CONFIRM WHEN DRAWING SIZE HAS BEEN REDUCED OR ENLARGED IN REPRODUCTION. THIS SCALE BAR IS FOR SHEET SIZE REFERENCE ONLY AND DOES NOT REPLACE SCALES AS NOTED ON INDIVIDUAL DRAWINGS AND/OR DETAILS

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SITE PLAN REVIEW
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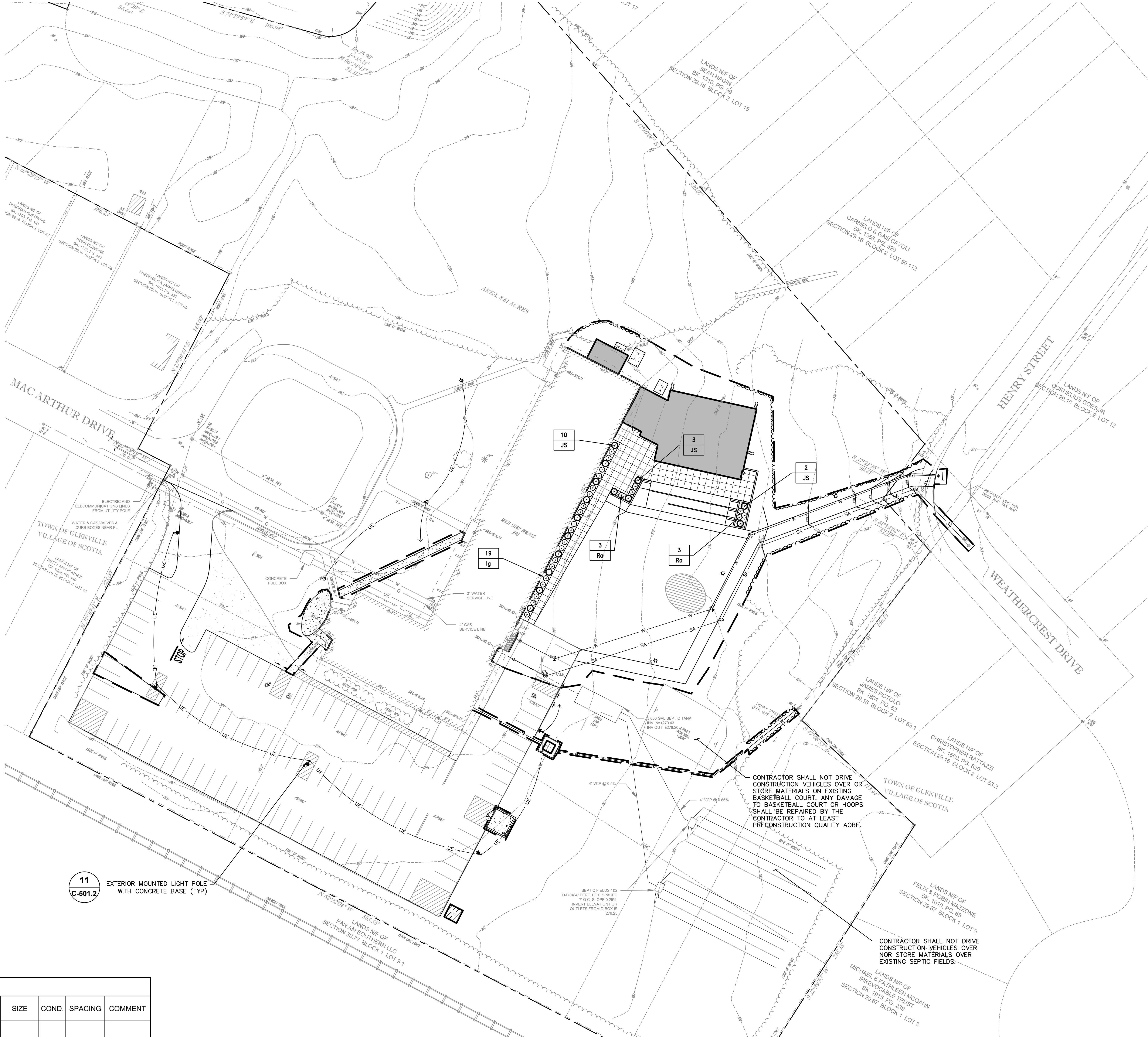
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UTILITY PLAN

C-104.2

SITE PLAN REVIEW SCALE: AS INDICATED
ALB-2200103.02 03/20/2023



LIGHTING AND LANDSCAPING LEGEND:

- PROPERTY LINE
- DISTURBANCE LIMITS
- STORMWATER MANAGEMENT AREA
- PROPOSED SHRUBS
- QUANTITY OF PLANT
- PLANT TYPE
- PROPOSED LIGHT POST

PLANTING SCHEDULE								
	DETAIL	QTY.	ABRV.	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING
TREES	1 C-515.2	15	JS	JUNIPERUS VIRGINIANA 'SKYROCKET'	SKYROCKET JUNIPER	4'-5' HT.	--	AS SHOWN
	2 C-515.2	19	Ig	ILEX GLABRA COMPACTA	COMPACT INKBERRY	18"-24" HT.	--	AS SHOWN
SHRUBS	3 C-515.2	6	Ra	RHUS AROMATICA 'GO-LOW'	GROW LOW SUMAC	3'-4' HT.	--	AS SHOWN

LUMINAIRE SCHEDULE						
SYMBOL	QTY.	ARRANGEMENT	DESCRIPTION	LLF	ARR. LUM. LUMENS	ARR. WATTS
⊕	6	POST TOP	RADEAN POST-TOP WITH P3 4000K ASYMMETRIC DISTRIBUTION WITH HOUSE-SIDE SHIELD	0.9000	17126	122
⌘	5	POLE MOUNTED	RADEAN ARM MOUNT WITH P5 4000K SYMMETRIC DISTRIBUTION	0.9000	6228	54

SCALE: 1" = 30'
(30"x42" PLOT)

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LANDSCAPING AND LIGHTING PLAN
C-105.2
SITE PLAN REVIEW
ALB-2200103.02

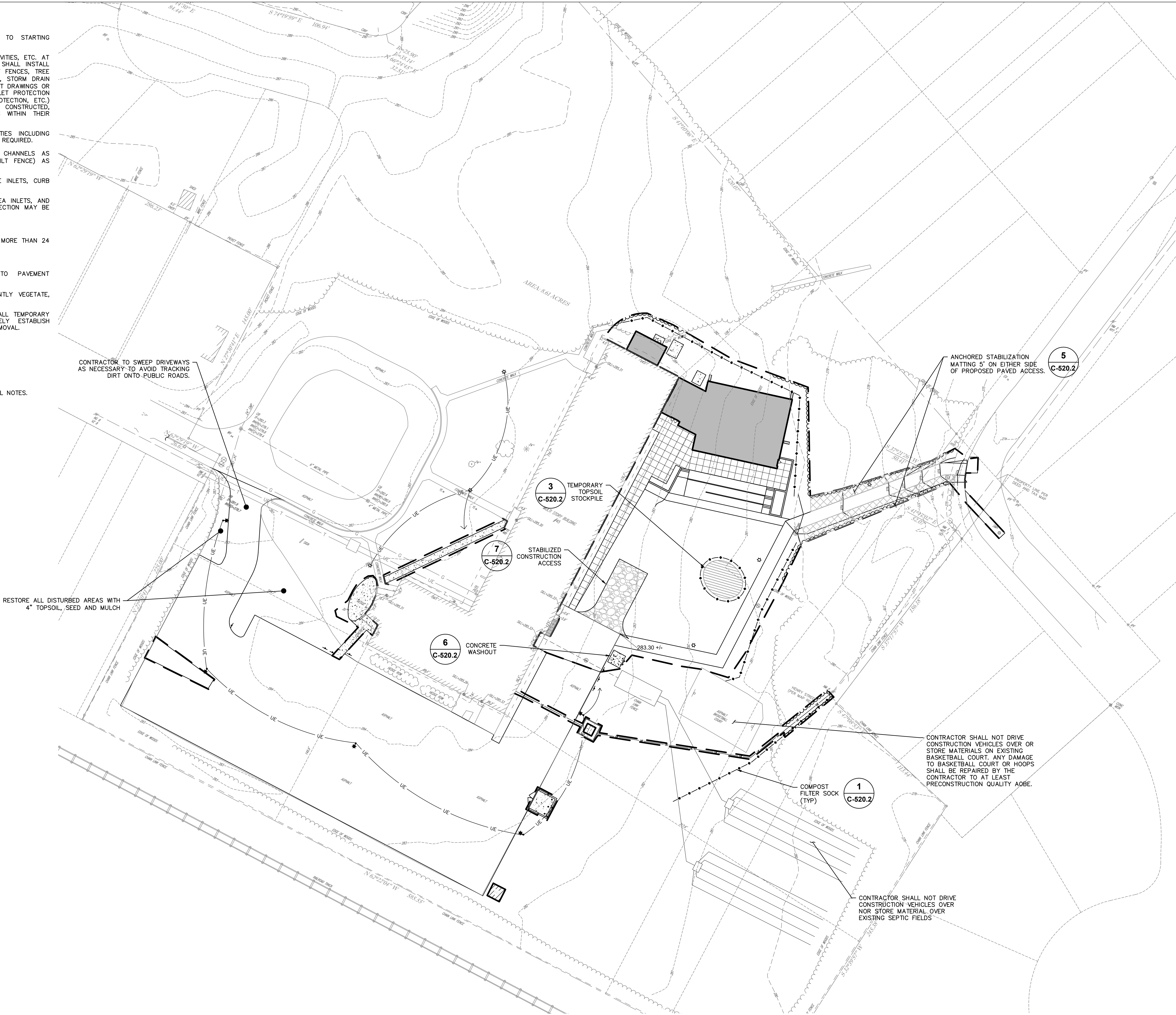
SCALE: AS INDICATED
03/20/2023

CONSTRUCTION SEQUENCING NOTES:

1. HOLD PRE-CONSTRUCTION MEETING AT LEAST 1 WEEK PRIOR TO STARTING CONSTRUCTION WITH ALL INVOLVED PARTIES.
2. PRIOR TO COMMENCING ANY CLEARING, GRUBBING, EARTHWORK ACTIVITIES, ETC. AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (I.E. SILT FENCES, TREE PROTECTION/BARRIER FENCES, STABILIZED CONSTRUCTION ACCESSES, STORM DRAIN SEDIMENT FILTERS, SEDIMENT TRAP, ETC.) INDICATED ON THE PROJECT DRAWINGS OR AS NECESSARY. THE CONTRACTOR SHALL INSTALL INLET AND OUTLET PROTECTION MEASURES (RIPRAP OVERFLOW WEIR(S), CULVERT INLET/OUTLET PROTECTION, ETC.) TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
3. THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRUBBING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED.
4. ROUGH GRADE SITE, STOCKPILE TOPSOIL, CONSTRUCT DIVERSION CHANNELS AS NECESSARY AND INSTALL/RE-LOCATE SEDIMENT BARRIERS (I.E. SILT FENCE) AS NEEDED.
5. INSTALL PROTECTIVE MEASURES AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
6. CONSTRUCT ALL UTILITIES, CURB AND GUTTER, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION.
7. FINALIZE PAVEMENT SUB-GRADE PREPARATION.
8. REMOVE PROTECTIVE MEASURES AROUND INLETS AND MANHOLES NO MORE THAN 24 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
9. INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
10. REMOVE TEMPORARY CONSTRUCTION ACCESS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS TO BE PAVED LAST).
11. COMPLETE FINAL GRADING OF GROUNDS, TOPSOIL, AND PERMANENTLY VEGETATE, LANDSCAPE, AND MULCH.
12. AFTER THE SITE IS STABILIZED THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

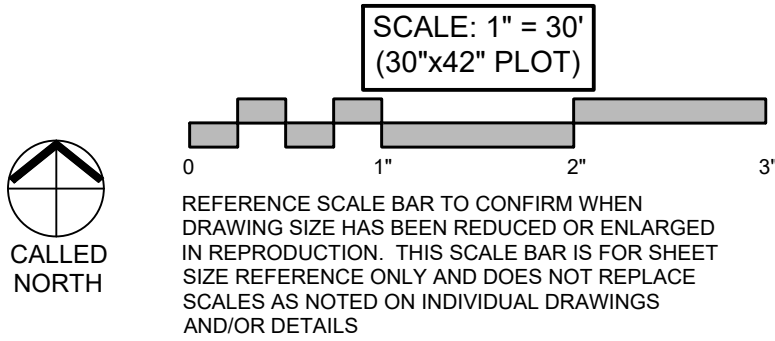
GENERAL NOTES:

1. SEE SHEET C-520.1 FOR ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES.



EROSION AND SEDIMENT CONTROL LEGEND:

- PROPERTY LINE
- DISTURBANCE LIMITS
- PROPOSED COMPOST FILTER SOCK
- PROPOSED STABILIZATION MATTING



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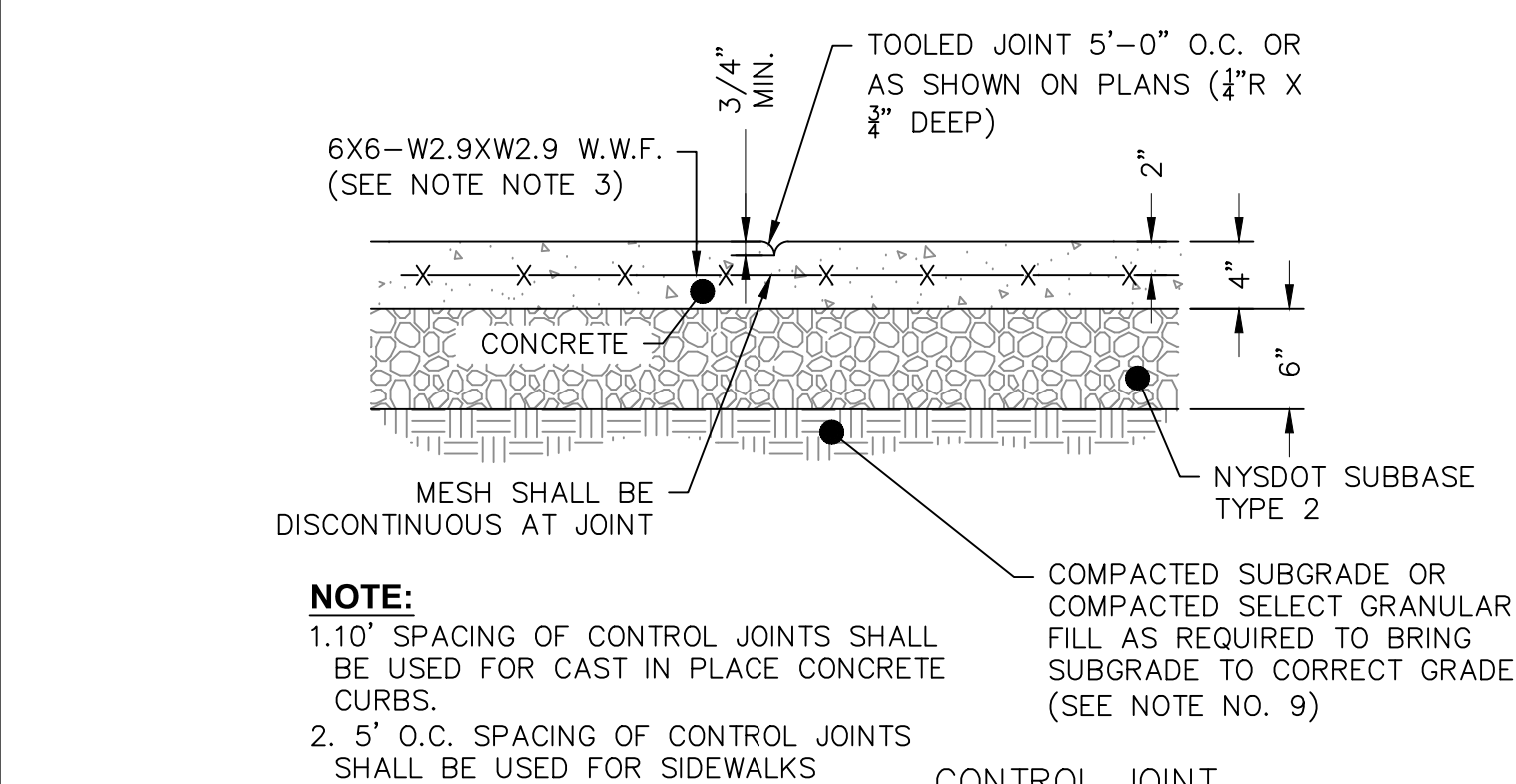
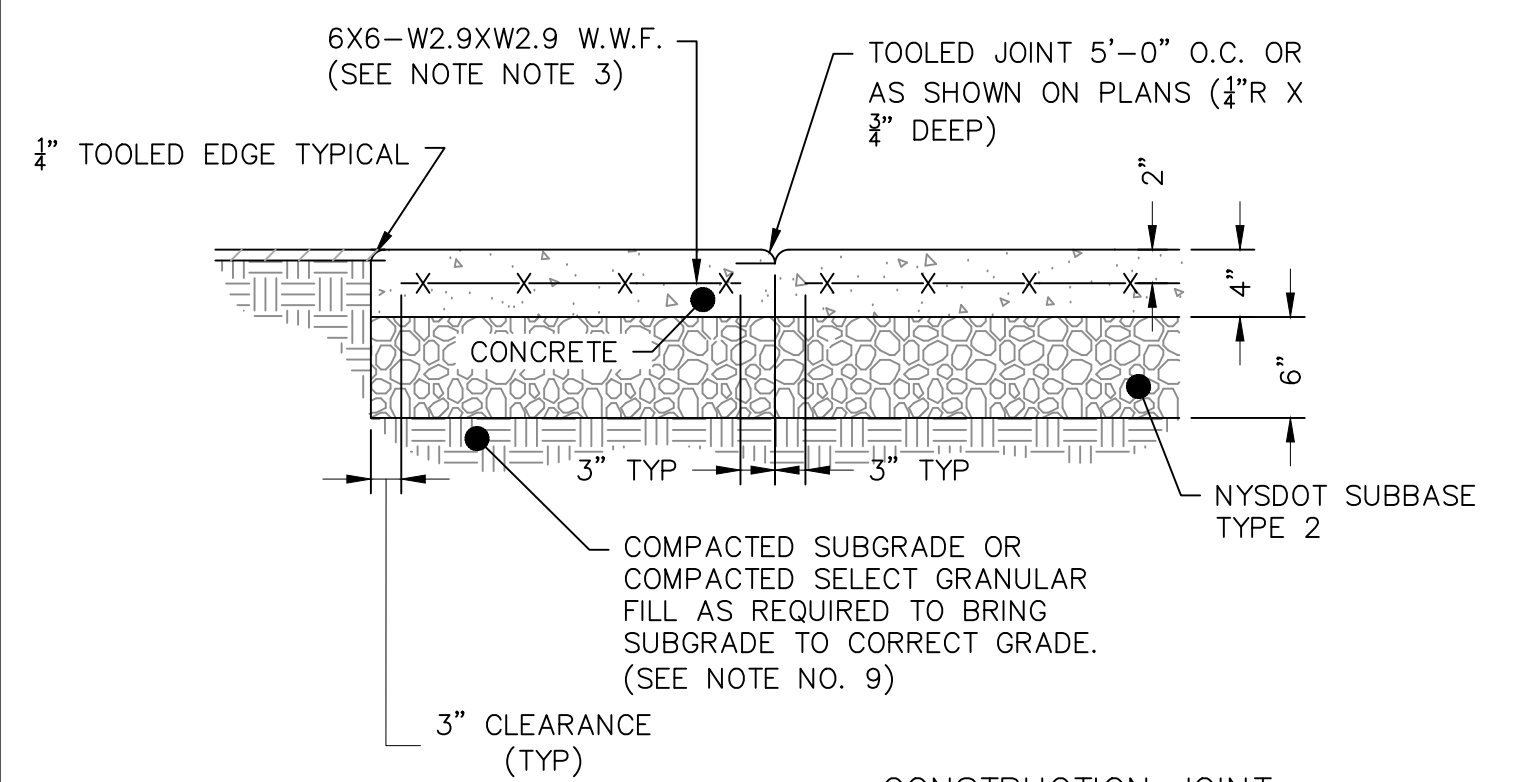
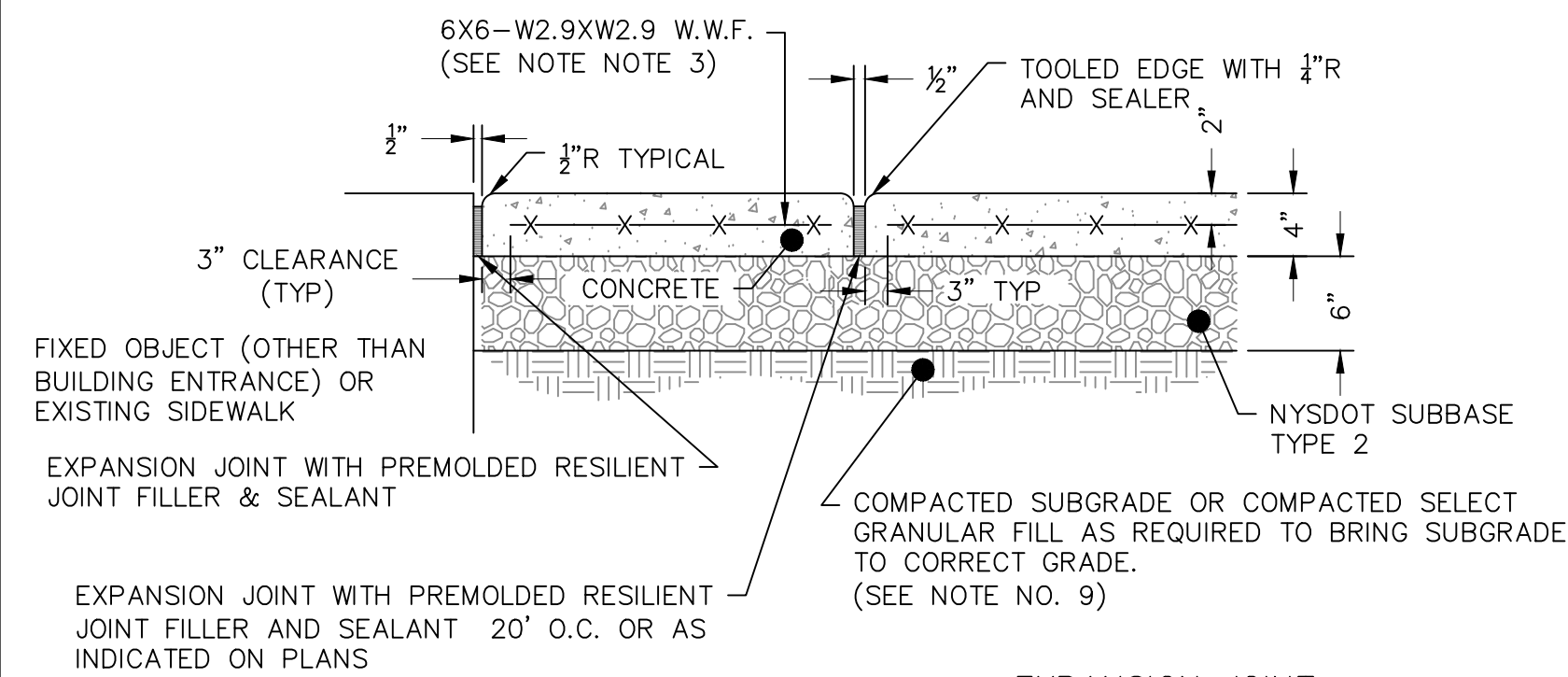
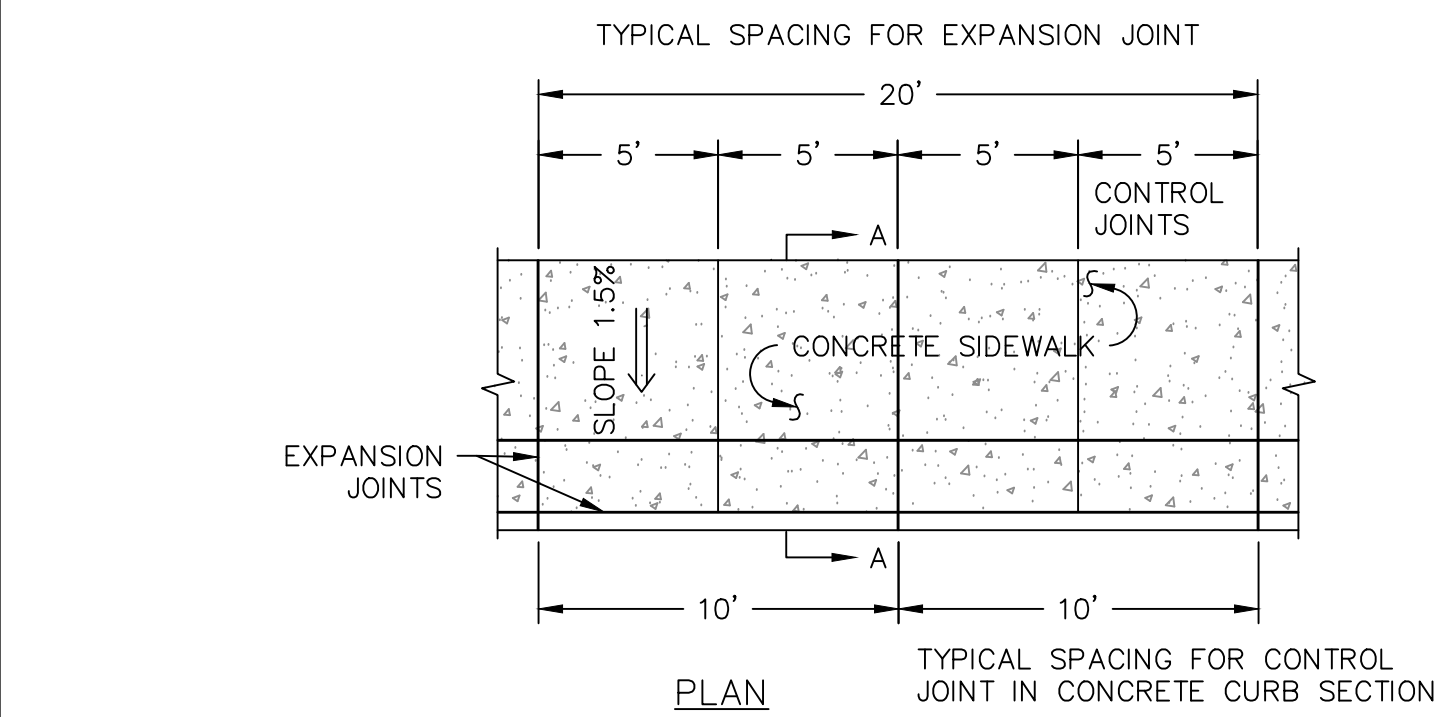
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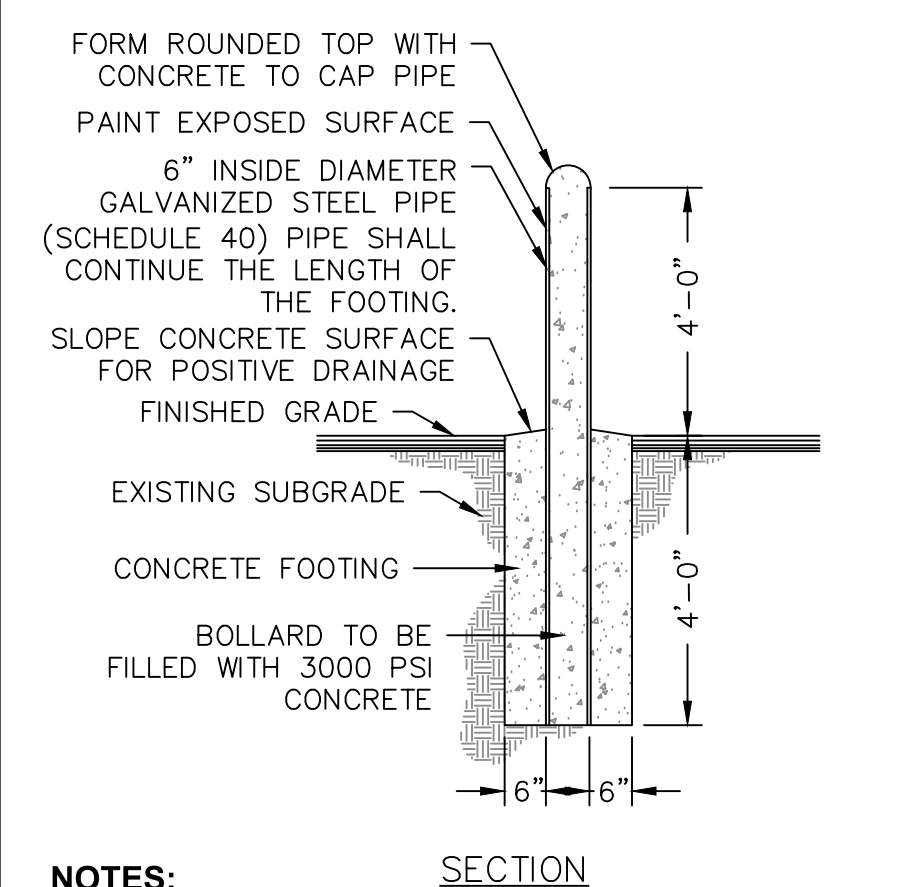
**EROSION AND SEDIMENT
CONTROL PLAN**

C-106.2

SITE PLAN REVIEW ALB-2200103.02 SCALE: AS INDICATED 03/20/2023

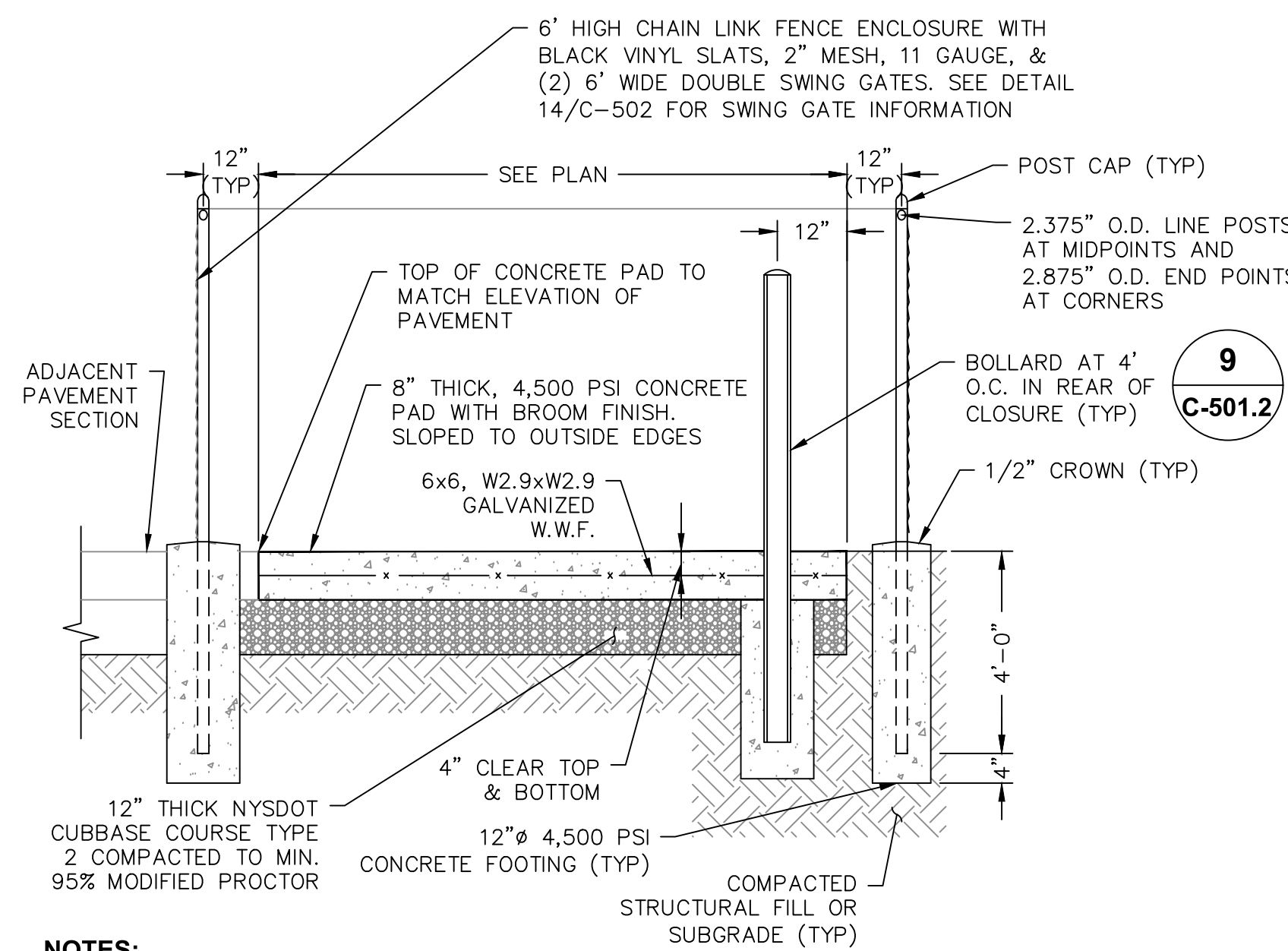


1 CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE



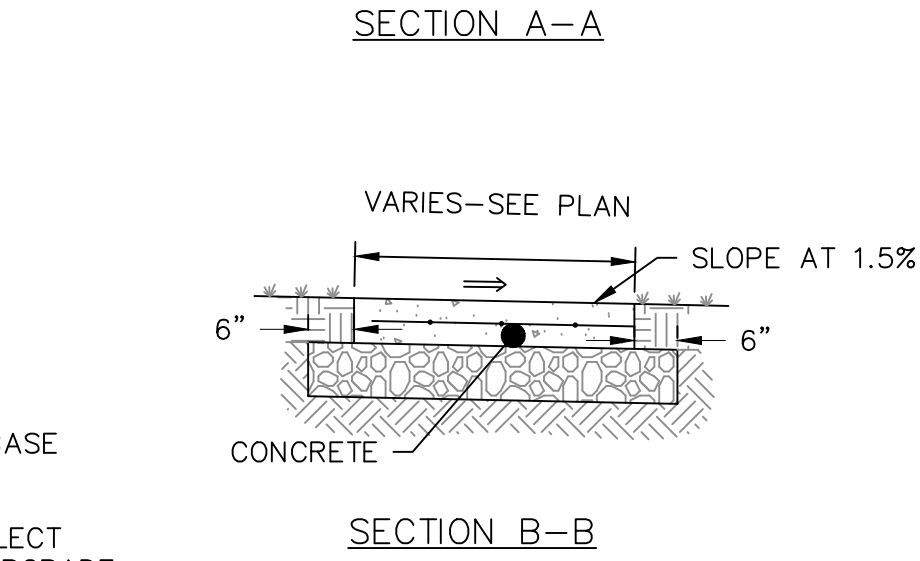
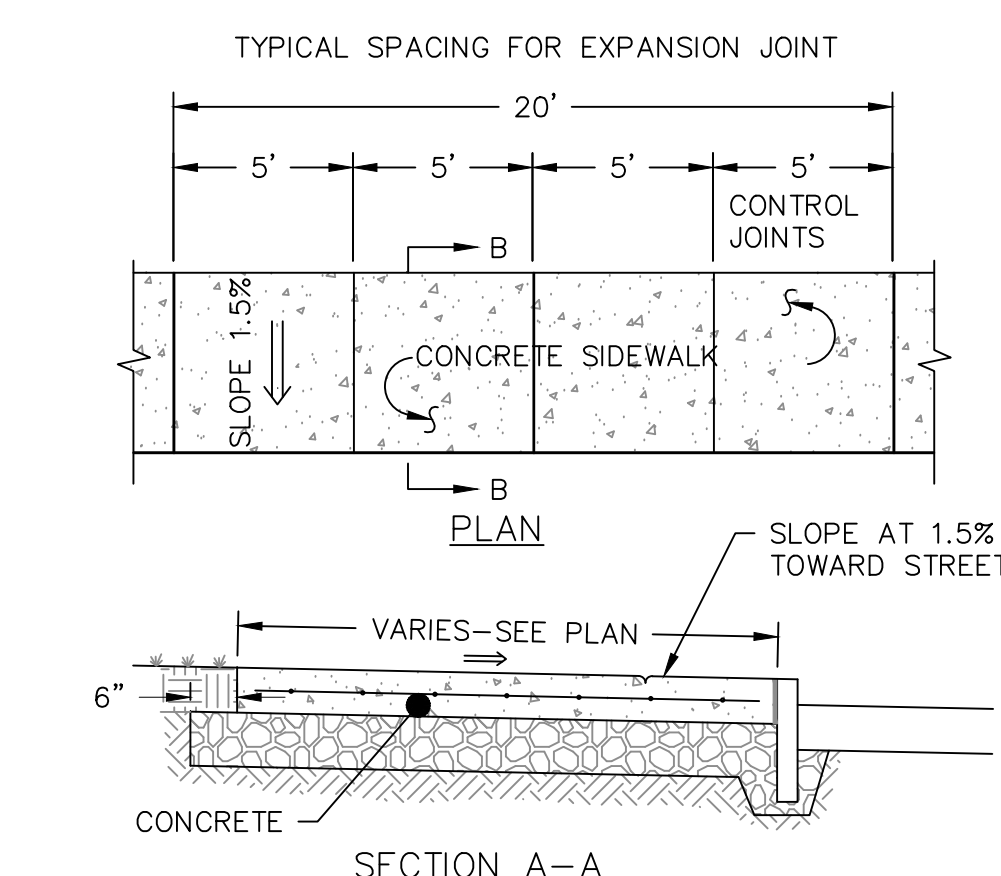
- NOTES:**
- BOLLARD FINISH: PREPARE GALVANIZED COATING TO RECEIVE PAINTED FINISH. APPLY (2) COATS OF GLOSS ENAMEL (COLOR TO BE YELLOW UNLESS OTHERWISE SELECTED BY THE OWNER.)
 - ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI @ 28 DAYS.
 - ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" (WITH A TOLERANCE OF 1").
 - ALL CONCRETE SHALL HAVE A 5% ENTRAINED AIR (WITH A TOLERANCES OF 1%) CONFORMING WITH ASTM C260.

9 CONCRETE FILLED STEEL BOLLARD
SCALE: NOT TO SCALE



- NOTES:**
- ALL FENCE STEEL FRAMEWORK SHALL BE SCHEDULE 40.

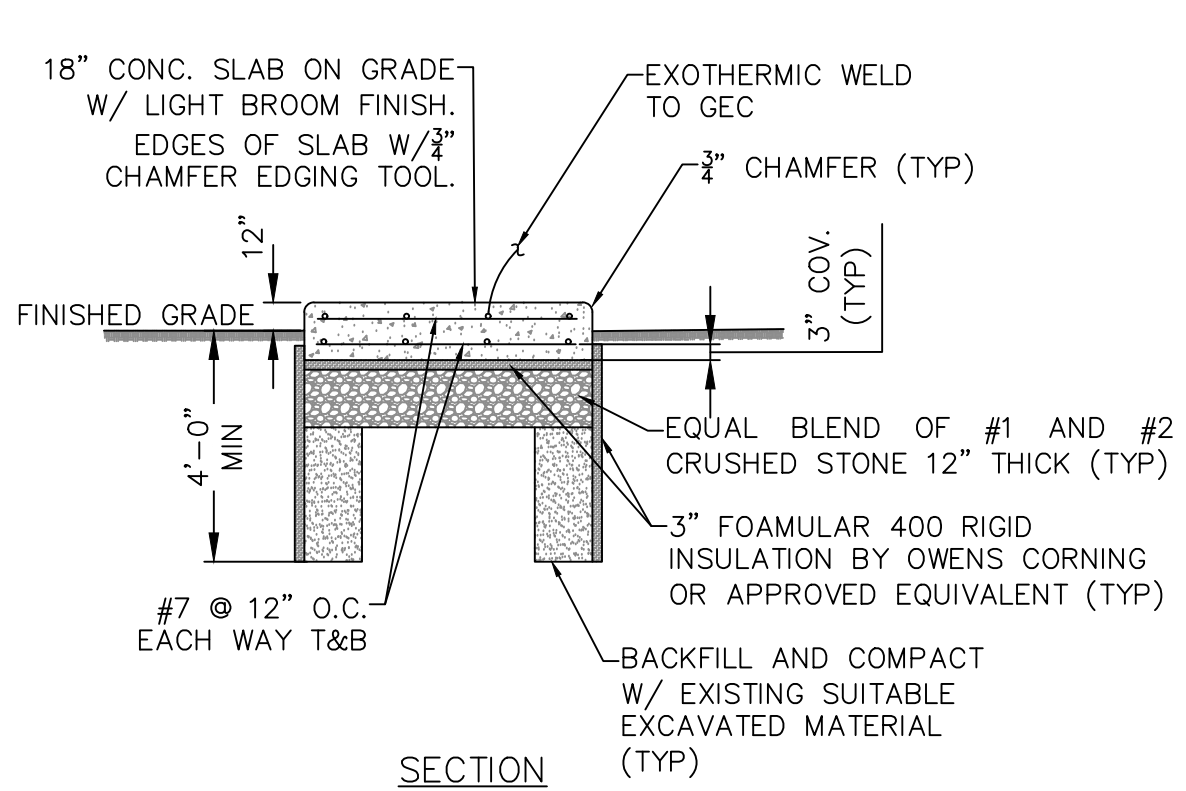
10 6' HIGH BLACK PVC FENCE DUMPSTER ENCLOSURE W/PAD
SCALE: NOT TO SCALE



SECTION B-B

SIDEWALK NOTES:

- MATERIAL AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, MOST RECENT EDITION AND AS AMENDED THEREAFTER; THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
- ALL CONCRETE SHALL BE 4500 PSI CONCRETE. CONCRETE MATERIALS, PLACEMENT, AND CONSTRUCTION SHALL CONFORM WITH SECTION 500 OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- REINFORCING STEEL FOR CONCRETE SHALL CONFORM WITH SECTION 556 - REINFORCING STEEL FOR CONCRETE STRUCTURES OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND AS SPECIFICALLY CALLED OUT IN THE DRAWINGS.
- ALL EXPOSED SURFACED SHALL HAVE A BROOM TEXTURED FINISH & TOOLED EDGES. TOOL SHALL BE PROVIDED 1-1/2" (MAX) WIDE SMOOTH TROWEL FINISH AT EACH SIDE OF JOINT.
- EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20'-0" ON CENTER, OR AS INDICATED ON PLANS.
- JOINTS SHALL NOT BE SAW CUT.
- EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH PROSODO, CONSOLECK, SALT GUARD, OR PENETRATING WATER & SALT BARRIER OR APPROVED EQUAL RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 OF THE ABOVE REFERENCED NYSDOT STANDARD.
- WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- ALL WORK SHALL CONFORM WITH SECTION 608-SIDEWALK, DRIVEWAYS, AND BICYCLE PATHS OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% UNLESS OTHERWISE NOTED.

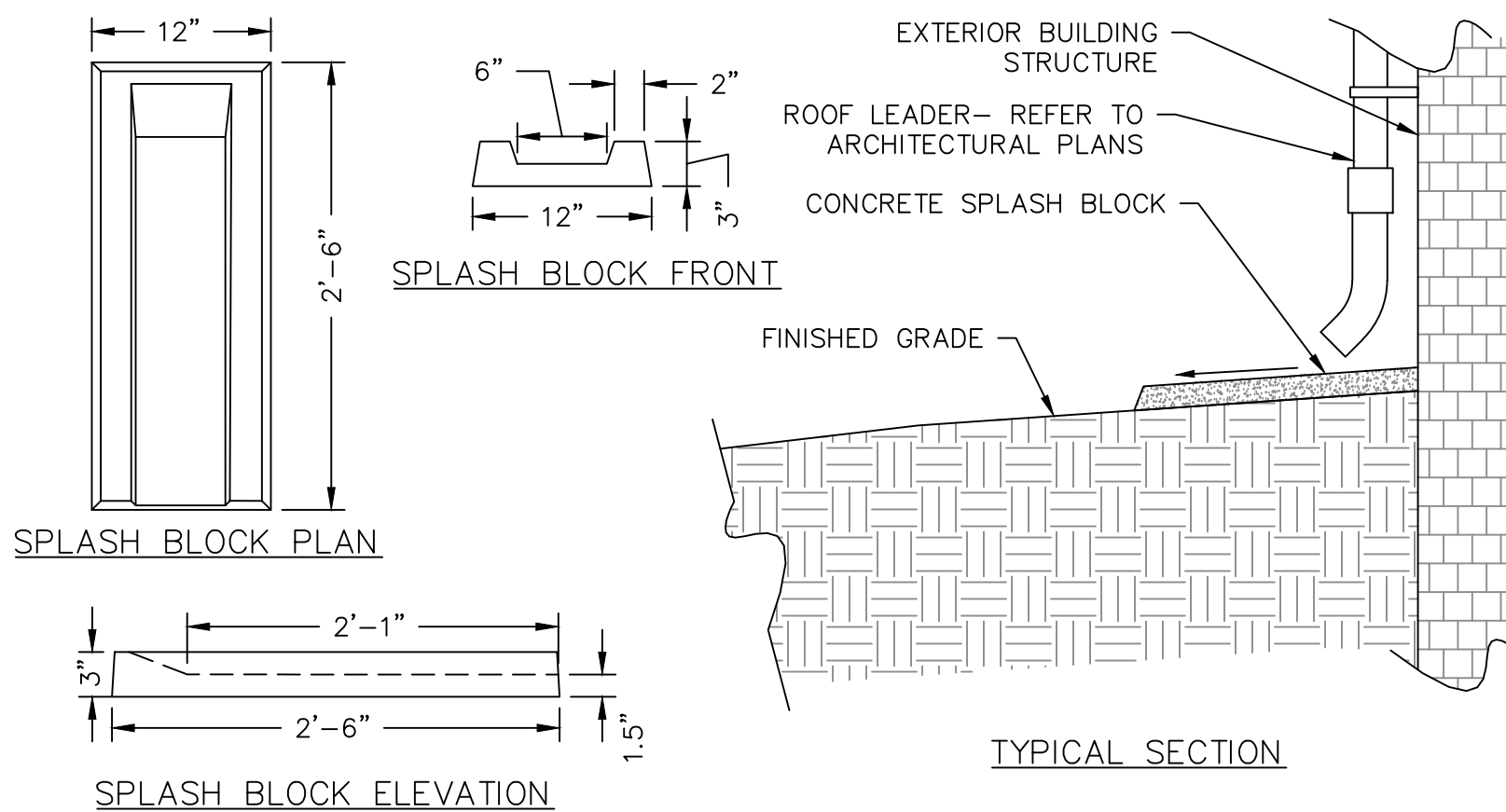


- NOTES:**
- ELEVATION OF TOP OF EACH PAD TO BE ABOVE THE 100-YEAR FLOODPLAIN ELEVATION OF 579.00.
 - COORDINATE PAD INFORMATION WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

CAST-IN-PLACE CONCRETE GENERAL NOTES:
(UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING SHALL APPLY)

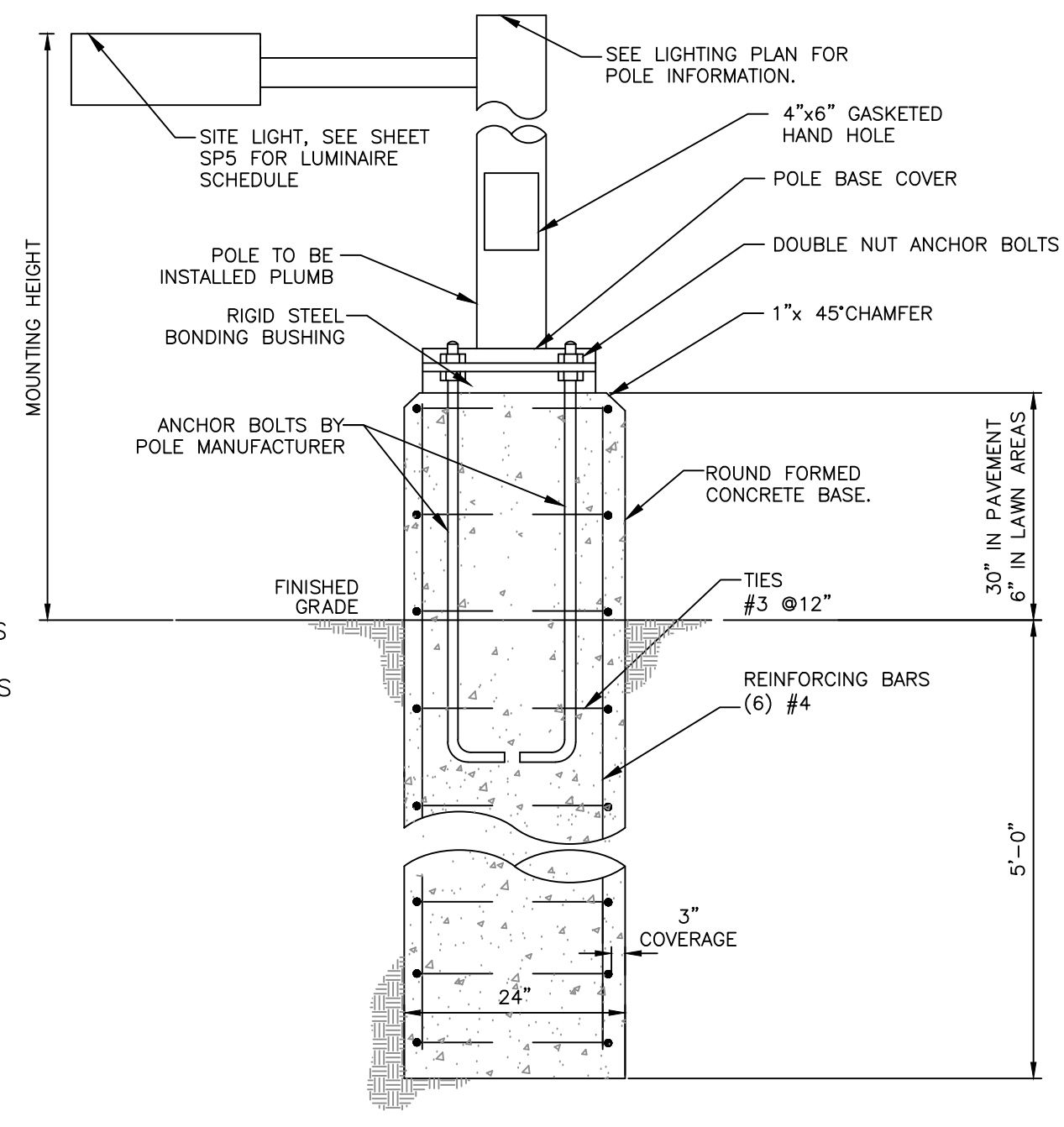
- CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE ACI 318-14.
 - UNLESS OTHERWISE INDICATED ON DRAWINGS CAST-IN-PLACE CONCRETE SHALL CONFORM TO THE FOLLOWING TABLE:
- | LOCATIONS | CONCRETE STRENGTH (PSI) | MAX. SIZE AGGREGATE | AIR CONTENT (%) | MAX. W/C RATIO |
|------------------------|-------------------------|---------------------|-----------------|----------------|
| EXTERIOR SLAB-ON-GRADE | 5000 | 1-1/2" | 5.5±1.5 | 0.45 |
- REINFORCING FOR CONCRETE SHALL BE DEFORMED STEEL BARS IN ACCORDANCE WITH ASTM SPECIFICATION A615, GRADE 60. REBAR ANCHOR TIES TO BE ASTM SPECIFICATION A-955, GRADE 60.
 - PROVIDE ADEQUATE TIES FOR REINFORCEMENT IN SLABS. REINFORCEMENT TO BE HELD AT CORRECT DISTANCE FROM FORMS AND EARTH BY STEEL CHAIRS OR TIES.
 - FOLLOW C.R.S.I. RULES FOR PLACING OF REINFORCING STEEL AND ACCESSORIES.
 - THIS CONTRACTOR SHALL COOPERATE WITH OTHER TRADES AND WHERE REQUIRED INSTALL ALL BUILT-IN WORK, SLEEVES, INSERTS, ETC., AS REQUIRED FOR A COMPLETE JOB.
 - STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS A DAY'S POUR, JOINTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE FOR CHEMICAL BOND.
 - U.N.O. WALL FOOTINGS SHALL BE MINIMUM 12" THICK AND PROJECT 6" BEYOND ALL FACES OF WALLS AND AS A MINIMUM CONTAIN #5@12" O.C. BOTTOM BARS.

2 CONCRETE EQUIPMENT PAD
SCALE: NOT TO SCALE

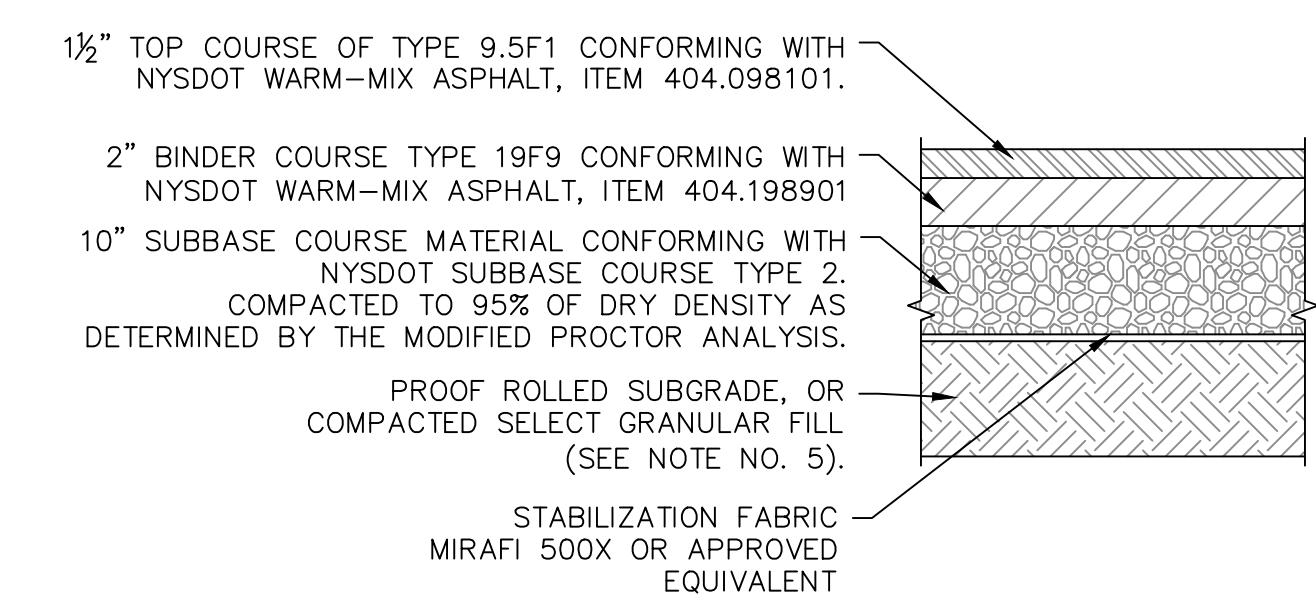


SPLASH BLOCK ELEVATION

5 ROOF LEADER WITH CONCRETE SPLASH BLOCK
SCALE: NOT TO SCALE



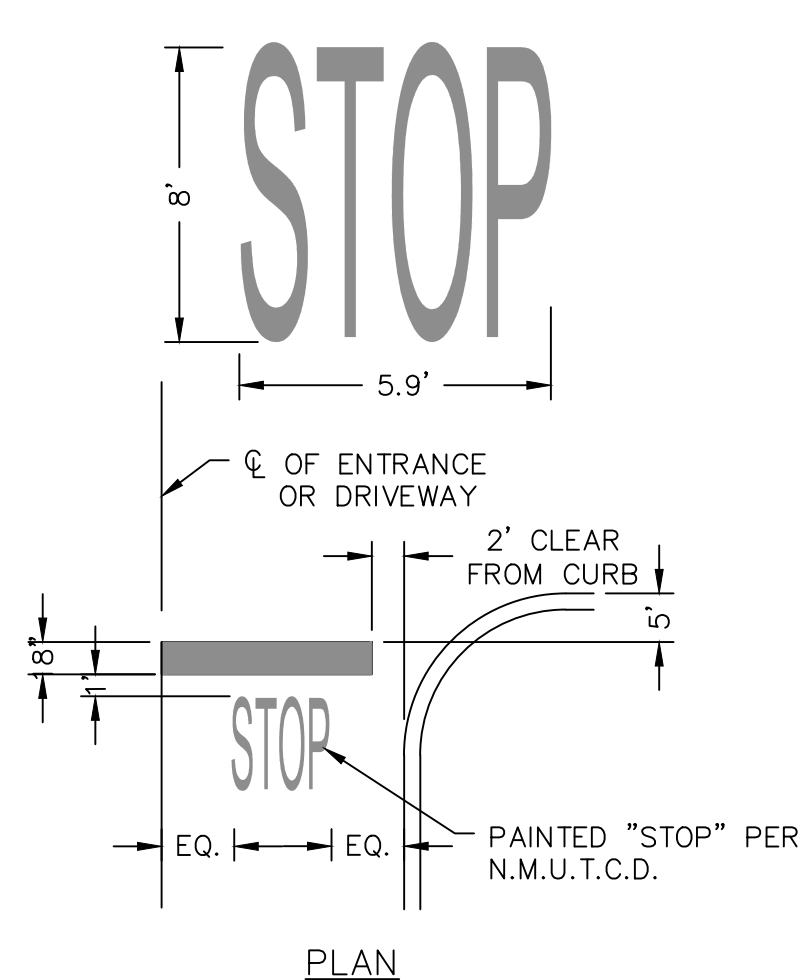
11 EXTERIOR MOUNTED LIGHT WITH CONCRETE BASE
SCALE: NOT TO SCALE



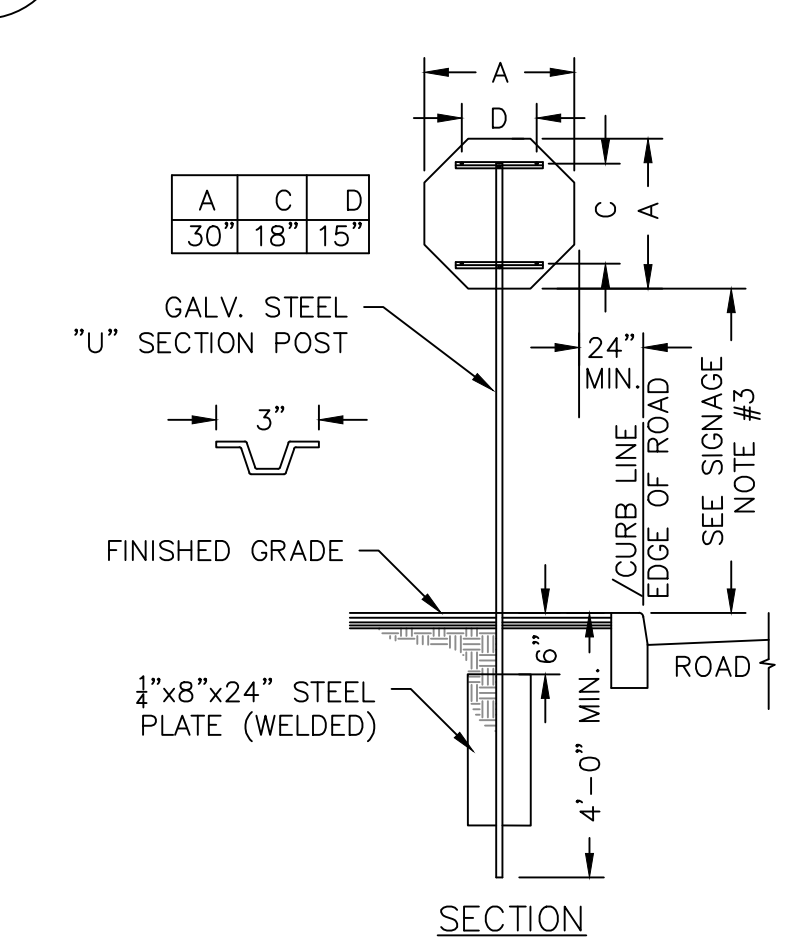
NOTES:

- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, MOST RECENT EDITION, AND ALL ADDENDA THERETO; THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
- SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
- WARM MIX ASPHALT (WMA) PAVEMENT SHALL CONFORM WITH SECTION 404-WARM MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE ITEM NUMBER CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 404 IN ITS ENTIRETY IS REFERENCED, THE WARM MIX ASPHALT (WMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 404-WARM MIX ASPHALT (WMA) PAVEMENTS.
- TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES AND SURFACES OF CURBS BEYOND PAVEMENT LEVEL, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
- WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM.

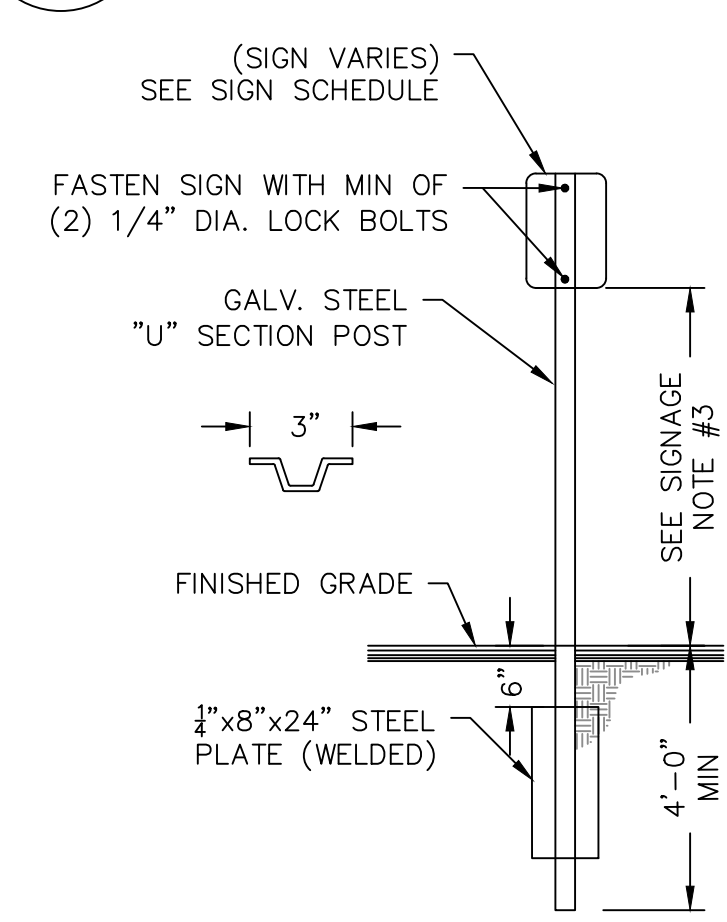
3 TYPICAL SECTION ASPHALT CONCRETE PAVEMENT
SCALE: NOT TO SCALE



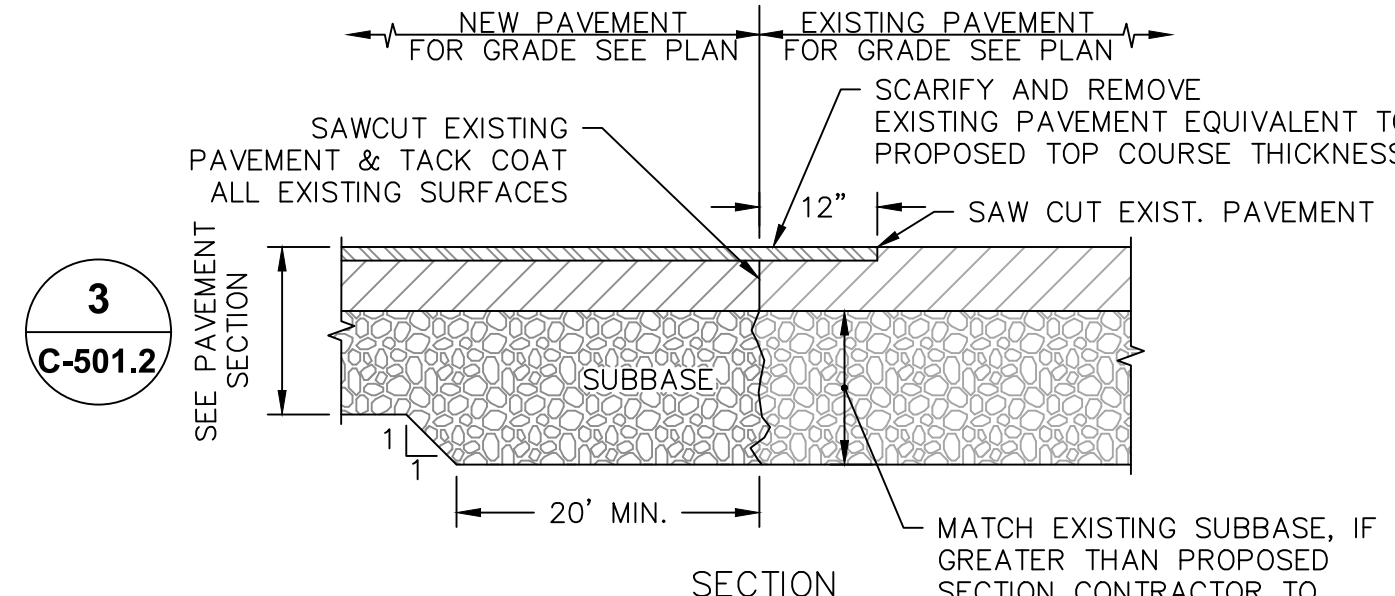
6 STOP BAR AND MARKING
SCALE: NOT TO SCALE



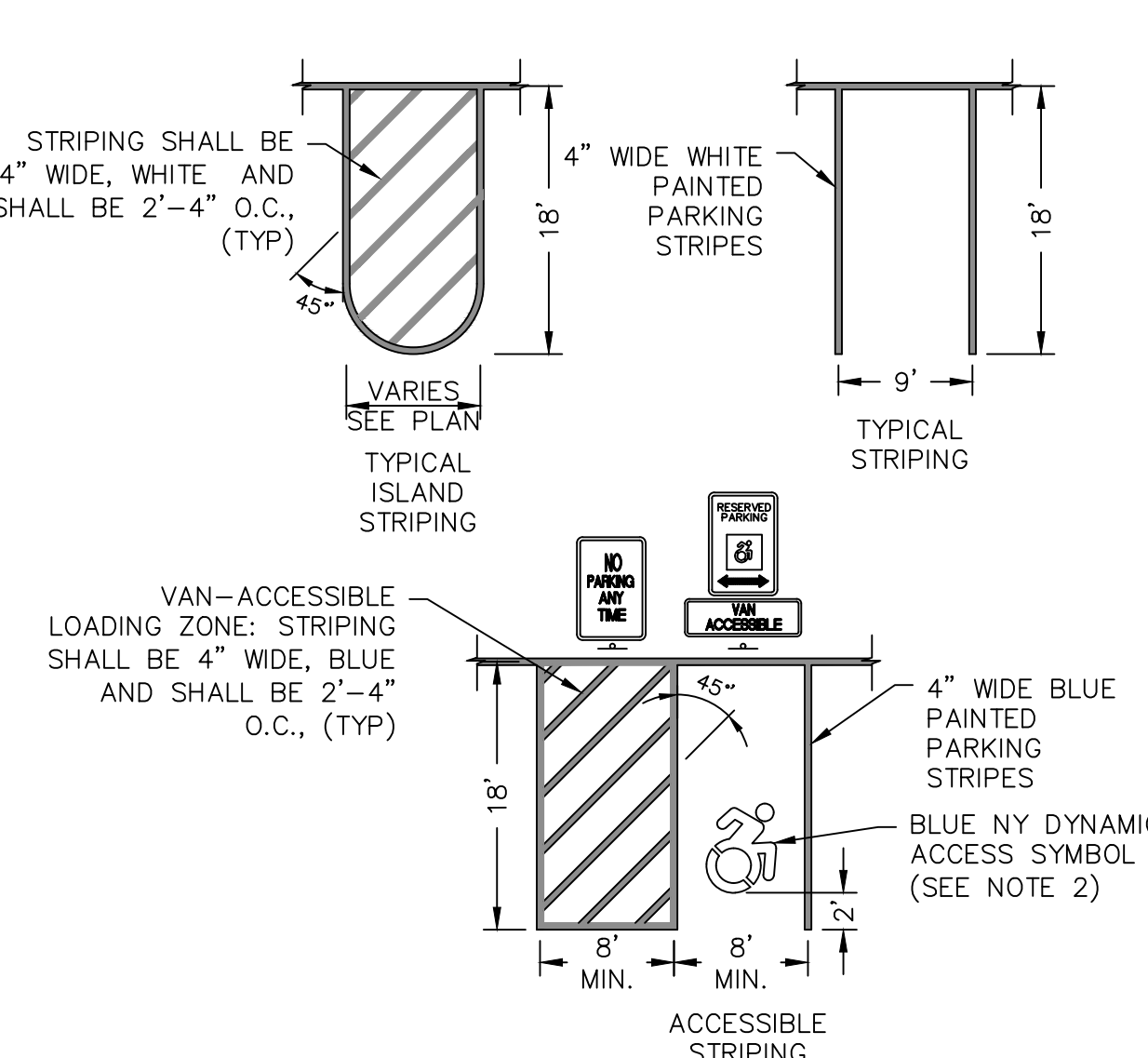
12 SINGLE POST STOP SIGN MOUNTING DETAIL
SCALE: NOT TO SCALE



13 SINGLE POST SIGN MOUNTING DETAIL
SCALE: NOT TO SCALE



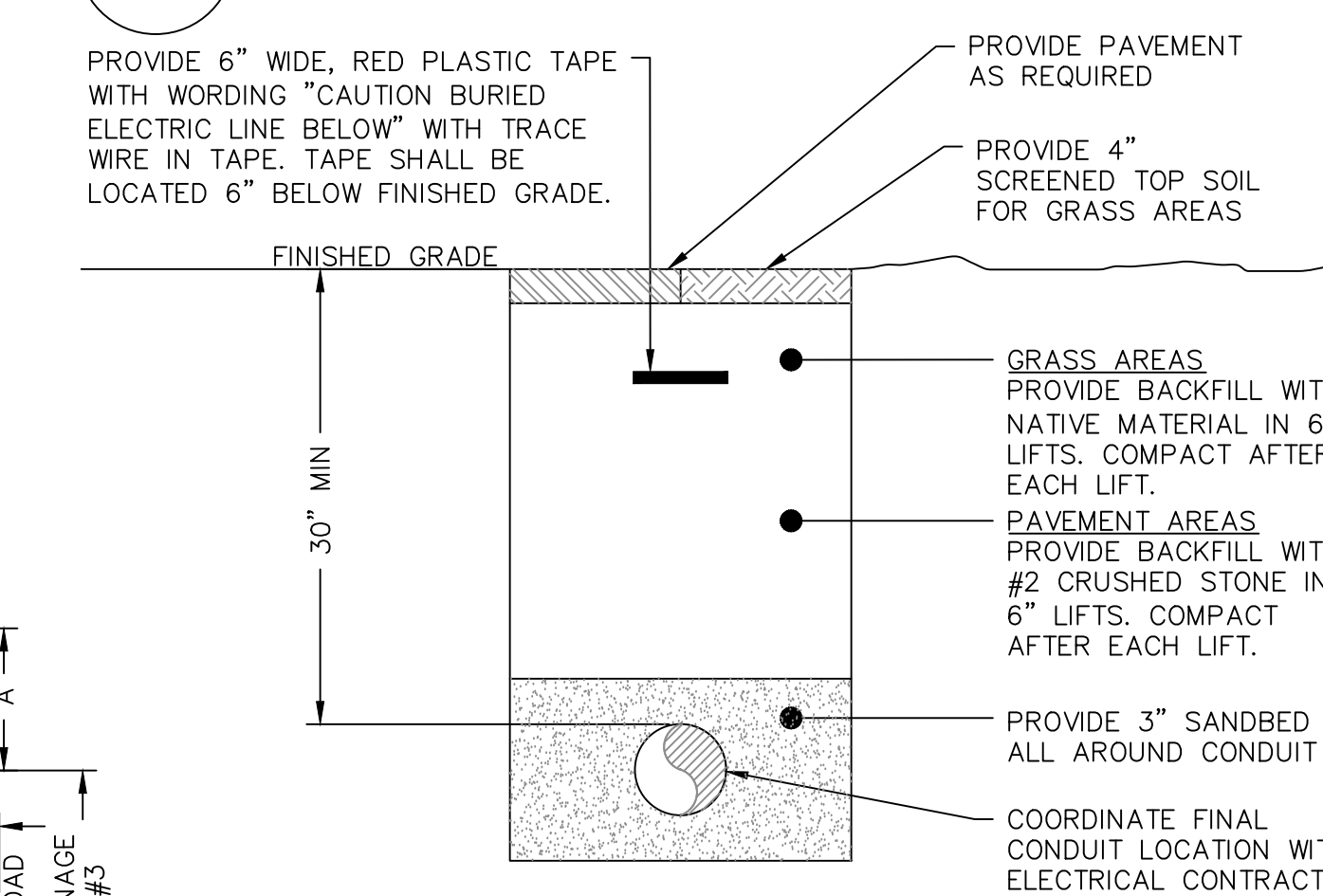
4 PAVEMENT TRANSITION
SCALE: NOT TO SCALE



NOTES:

- ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH ADA STANDARD AND CURRENT ZONING AND SITE REGULATIONS.
- PAINTED DYNAMIC ACCESS SYMBOL TO BE IN ACCORDANCE WITH NEW YORK LAW.
- SLOPE OF PAVEMENT SURFACE IN ACCESSIBLE PARKING AREA SHALL NOT EXCEED 2% IN ANY DIRECTION.
- SEE PLAN FOR ACTUAL SIGN LOCATIONS.

7 PAVEMENT STRIPING DETAILS AND ACCESSIBLE PARKING STALL
SCALE: NOT TO SCALE



8 DIRECT BURIED CONDUIT DETAIL
SCALE: NOT TO SCALE

SIGN SCHEDULE					
SIGN NO.	SIGN FACE	NUMBER	MIN SIZE	COLORS	
				BCK GRND	LEGEND
①	STOP	R1-1	30"x30"	RED	WHITE
②	RESERVED PARKING	NY R7-8D	12"x18"	WHITE / BLUE	GREEN / WHITE
③	NO PARKING ANY TIME	R7-1	12"x18"	WHITE	RED
④	VAN ACCESSIBLE	R7-8p	12"x6"	WHITE	BLUE

SIGNAGE AND PAVEMENT MARKING NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, SECTION 640 & 645 AND THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
- SIGN POST SHALL BE IN ACCORDANCE W/ NYSDOT STANDARD SPECS SECTION 730.
- SIGN MOUNTING HEIGHT SHALL BE A MINIMUM OF 7'. MINIMUM MOUNTING HEIGHT MAY BE ADJUSTED ONLY IN ACCORDANCE WITH PROVISIONS OUTLINED IN THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
- STRIPING WORK WILL BE REVIEWED AND ACCEPTED BY THE ENGINEER.

14 SIGN FACE SCHEDULE
SCALE: NOT TO SCALE



52 James Street
Albany, New York 12207
P 518.462.1848
F 518.462.2529
www.envisionarchitects.com

Hazmat Consultant
Ambient Engineers

828 Washington Avenue,
Albany, NY 12203
P 518.482.0704
F 518.482.0750

MEP, FP, & Civil Consultant
GPI Engineers

80 Wolf Road, Suite 300
Albany, NY 12205
P 518.453.9431
F ----

Structural Consultant
Dalto Engineering

7 Maureen Court
Clifton Park, NY 12065
P 518.466.3317
F ----

Acoustical Consultant
Acoustic Distinctions

400 Main Street, Suite 600
Stamford, CT 06901
P 203.973.7773
F ----

Acoustical Consultant
Theatre Projects

902 Broadway, Floor 7
New York, New York 10010
P 917.722.1020
F ----

SEAL:

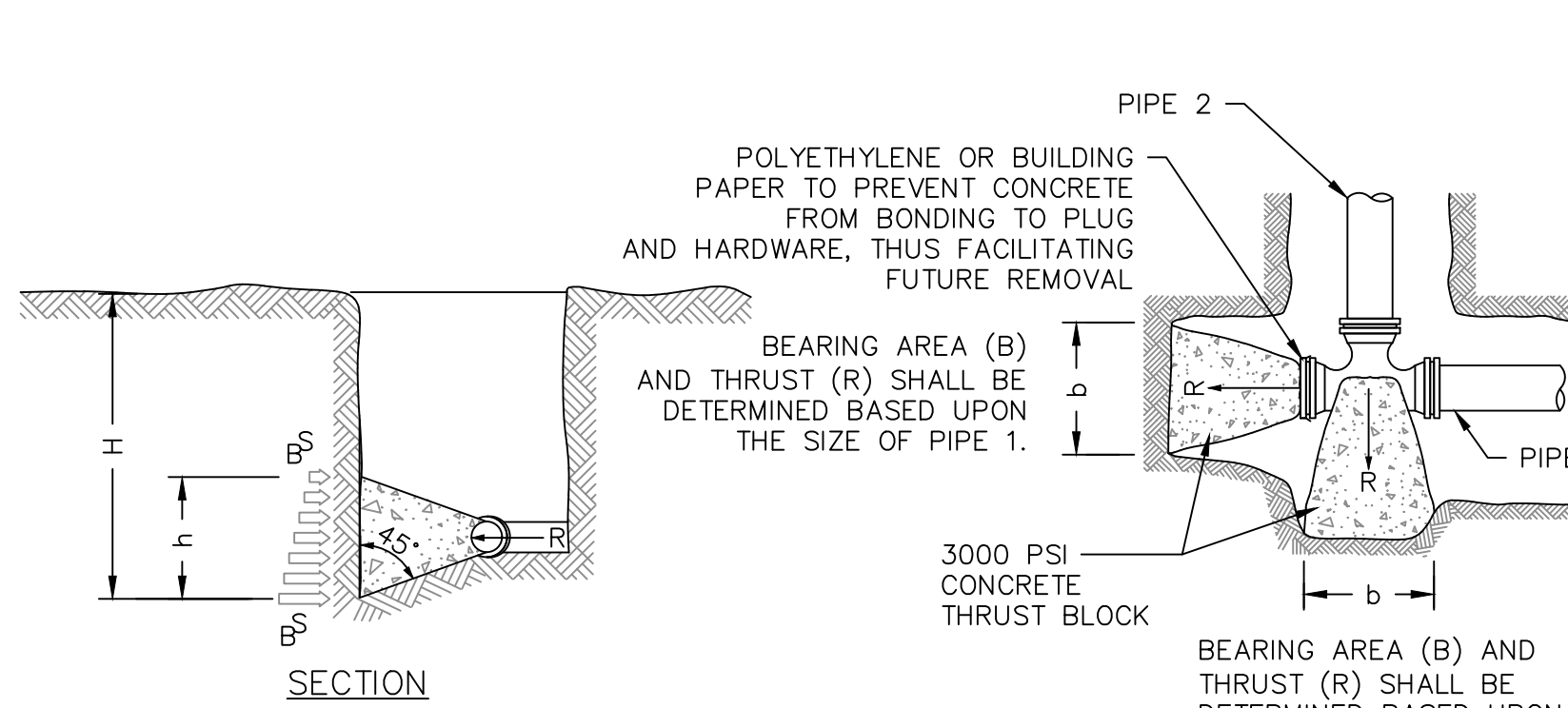


ESYO MacArthur Renovation - Phase 2
45 MacArthur Drive, Schenectady, NY



No.	Description	Date

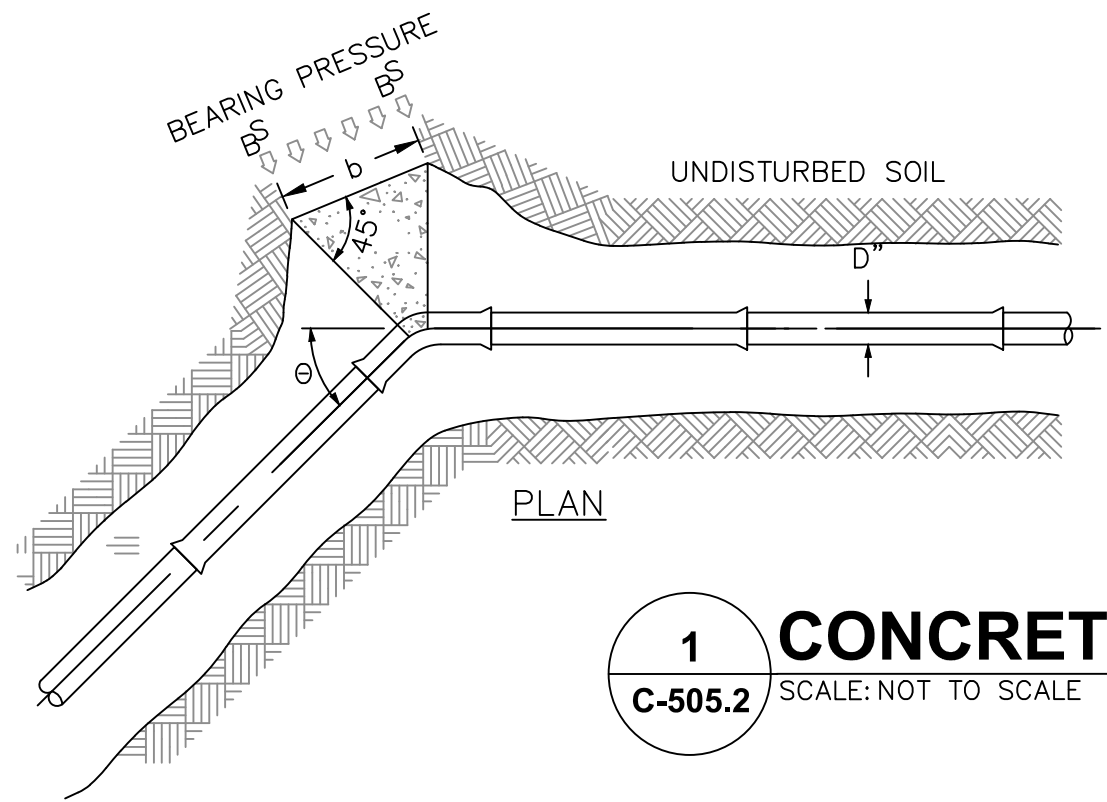
It is a violation of the law for any person, unless acting under the direction of a licensed architect, to alter this document in any way.



REQUIRED BEARING AREAS -B (SQFT) FOR BEARING BLOCKS*					
PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	2.0	2.8	1.5	0.8	0.4
6	4.2	5.9	3.2	1.6	0.8
8	7.2	10.1	5.5	2.8	1.4
10	10.9	15.4	8.3	4.2	2.1
12	15.4	21.8	11.8	6.0	3.0
14	20.6	29.1	15.8	8.0	4.0
16	26.8	37.9	20.5	10.4	5.2
18	33.6	47.5	25.7	13.1	6.6
20	41.2	58.2	31.5	16.1	8.1
24	58.8	83.1	45.0	22.9	11.5
30	90.5	128.0	69.2	35.3	17.7
36	129.6	183.3	99.1	50.5	25.4

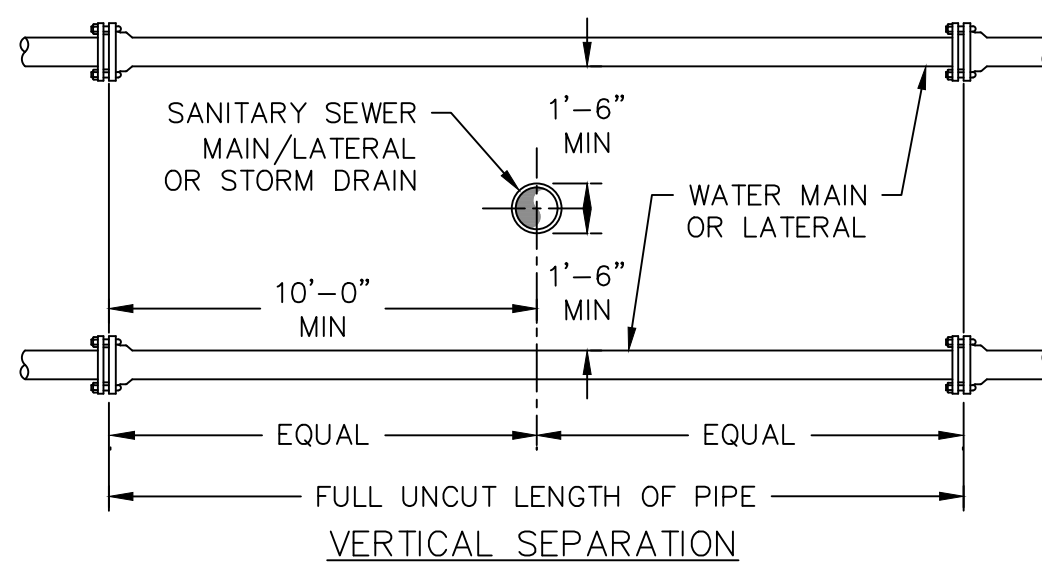
*FACTOR OF SAFETY=1.5
SOIL BEARING OF 3,000 PSF
225 PSI DESIGN PRESSURE

*BEARING AREA
(B) = BX

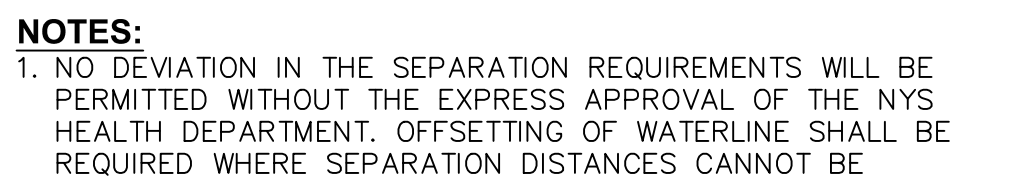
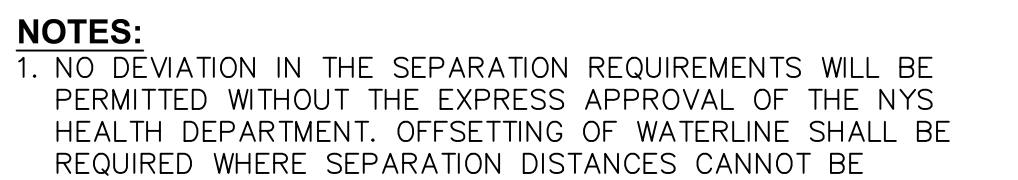
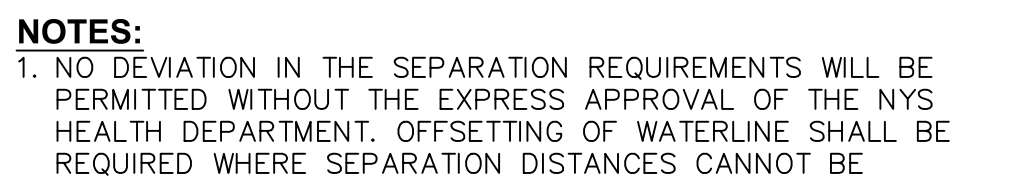
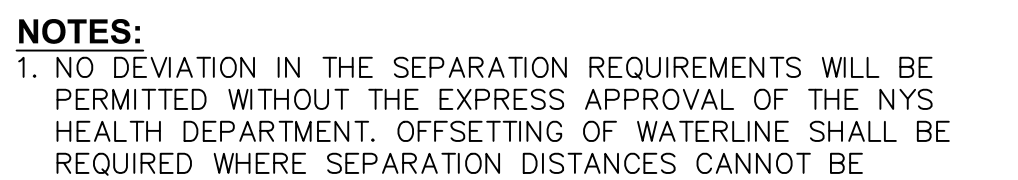
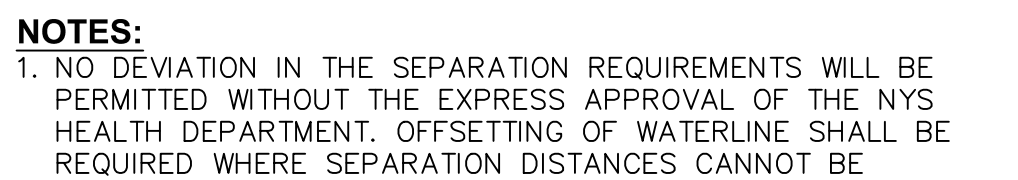
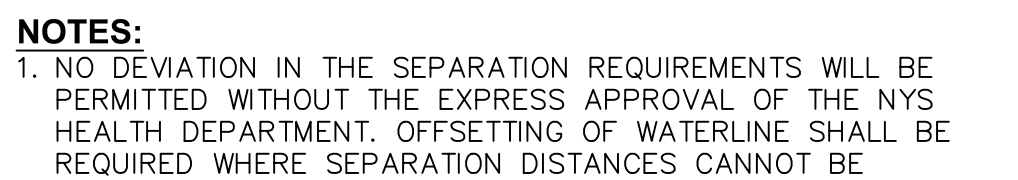
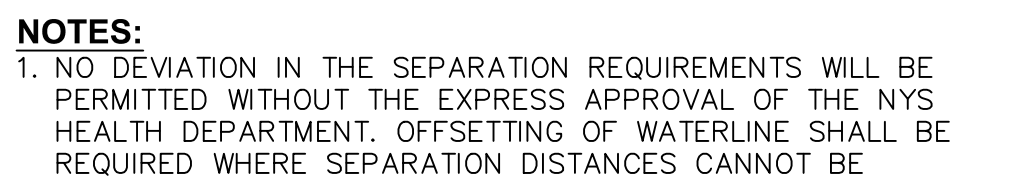
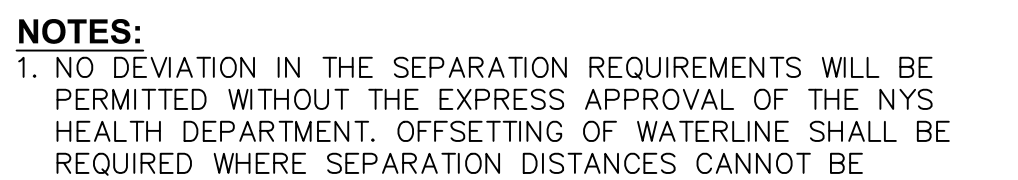
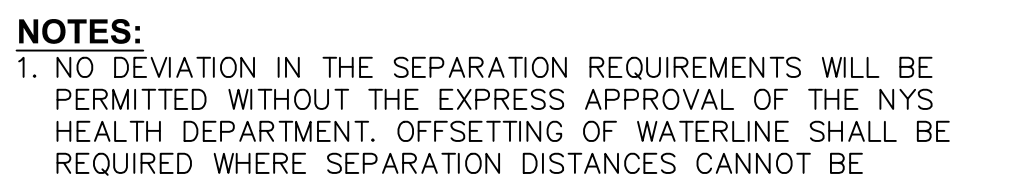
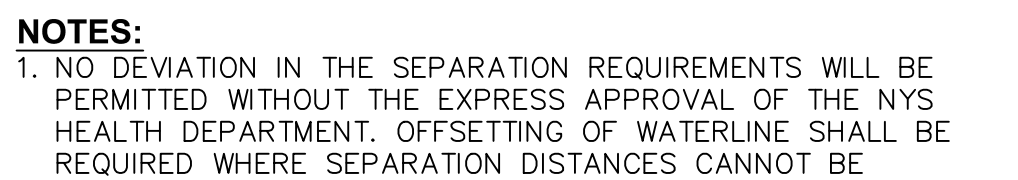
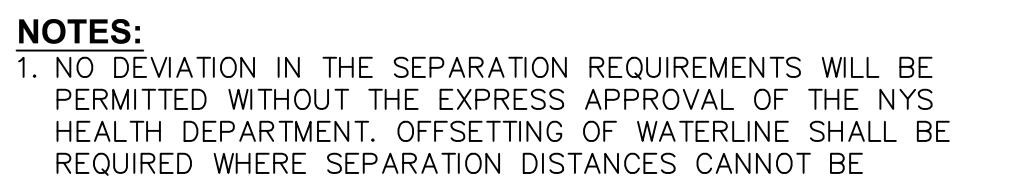
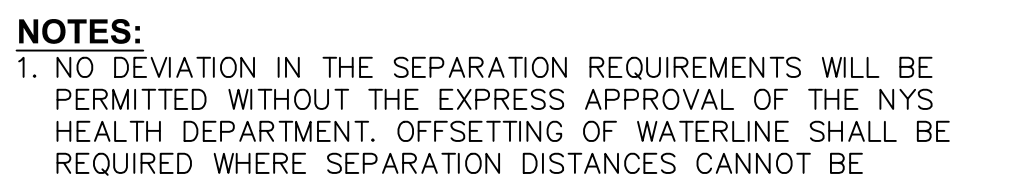
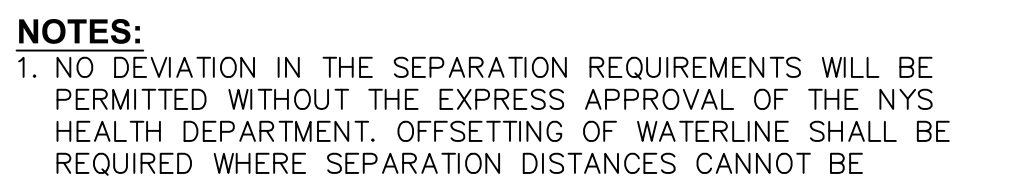
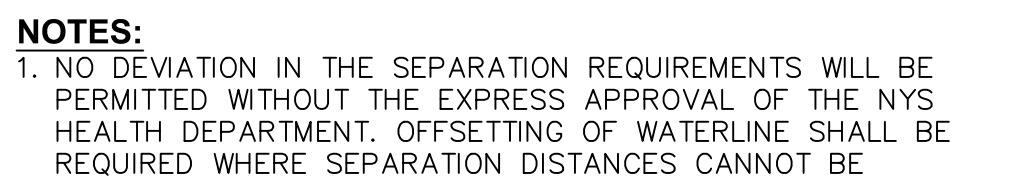
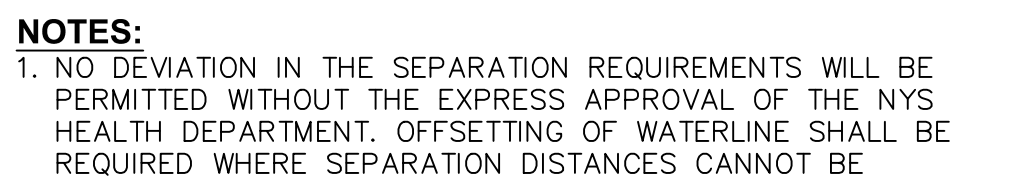
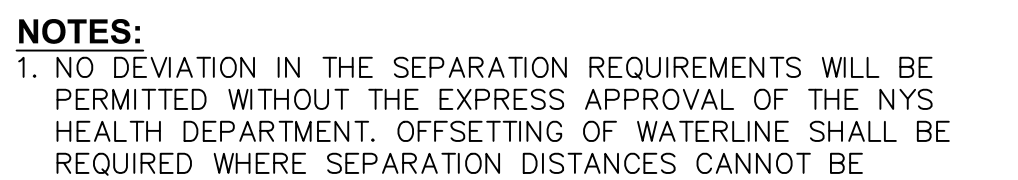
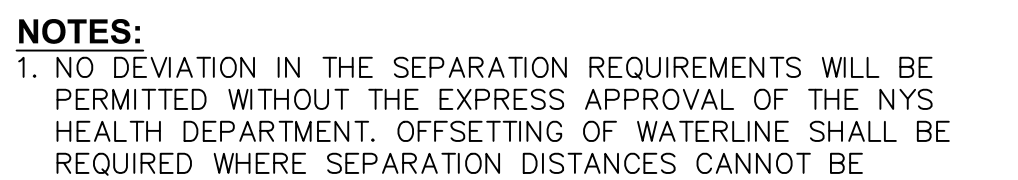
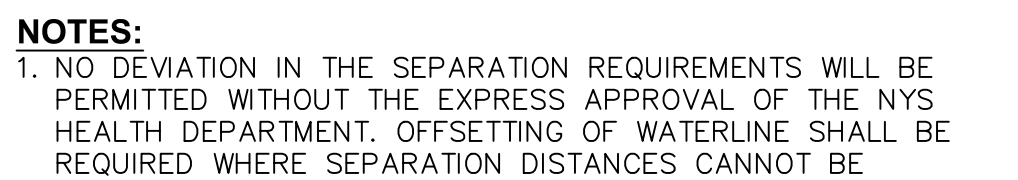
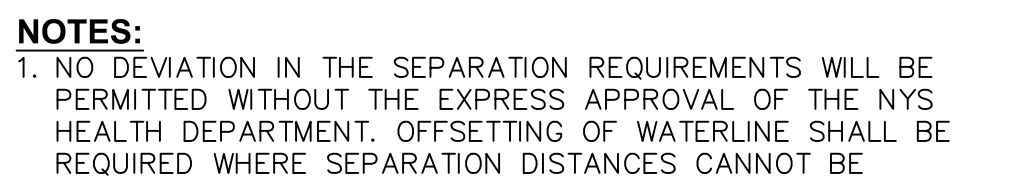
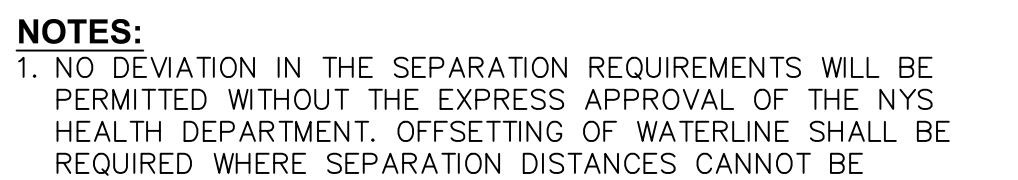
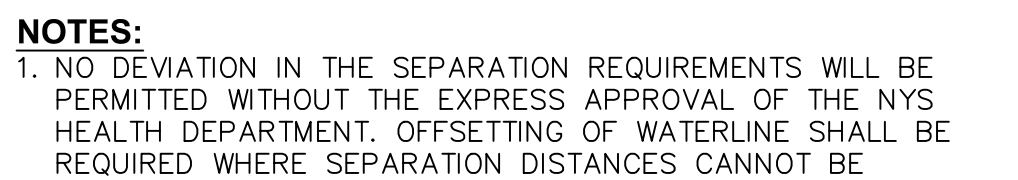
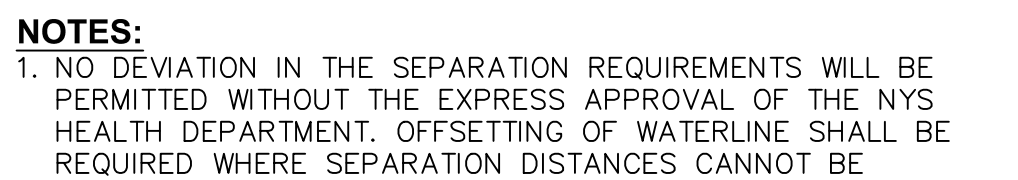
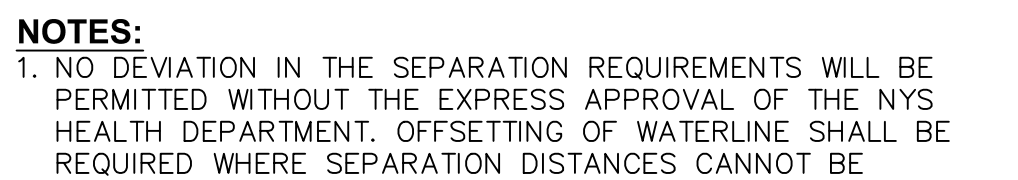
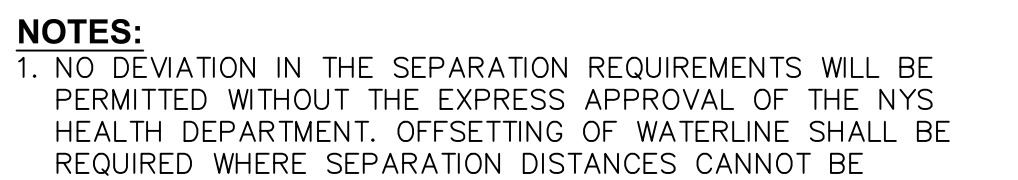
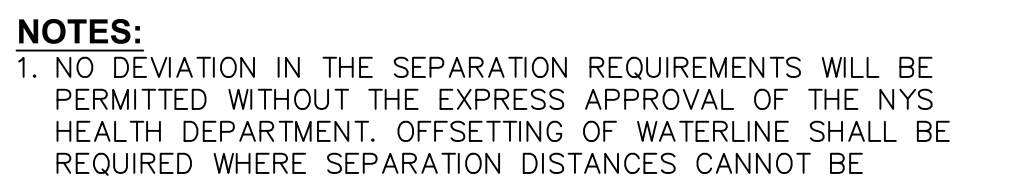
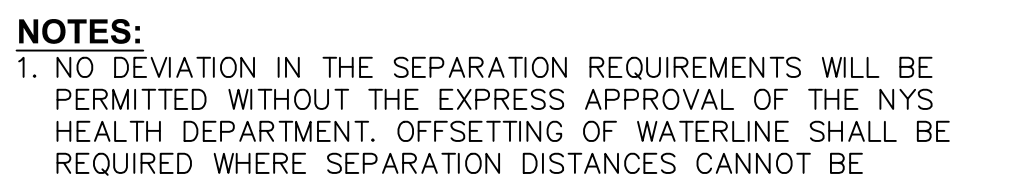
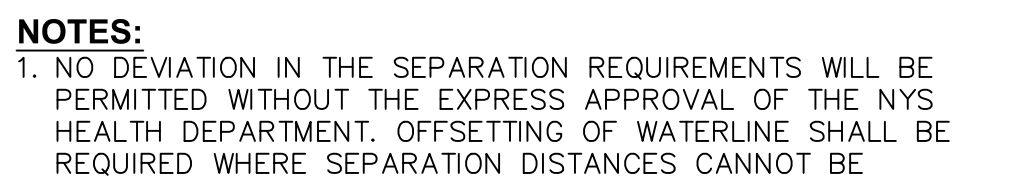
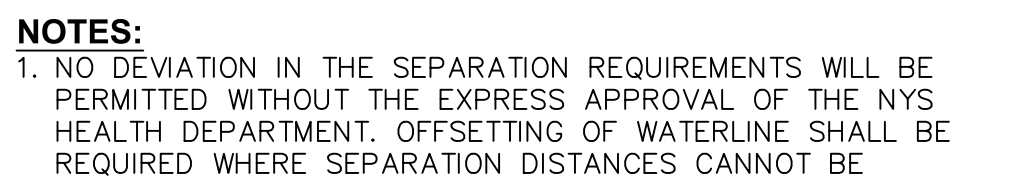
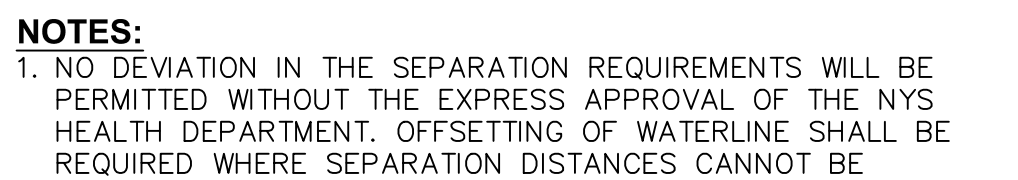
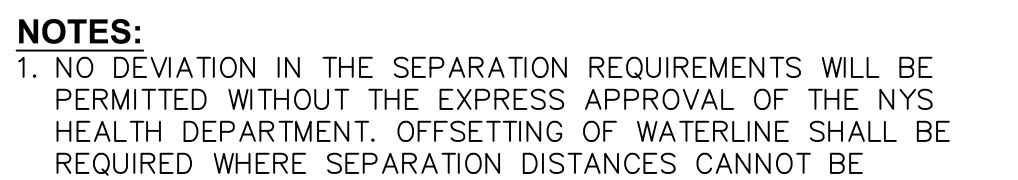
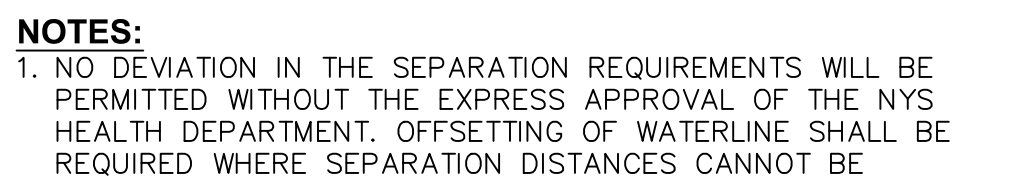
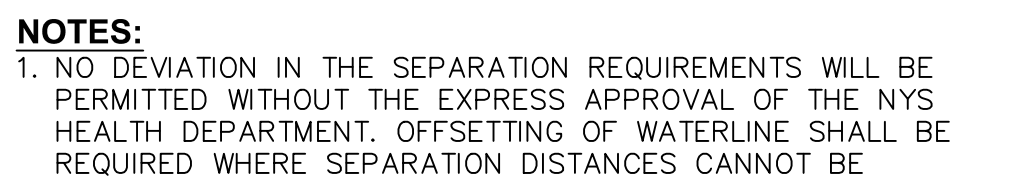
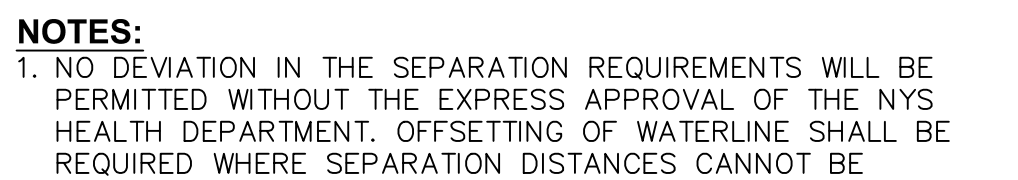
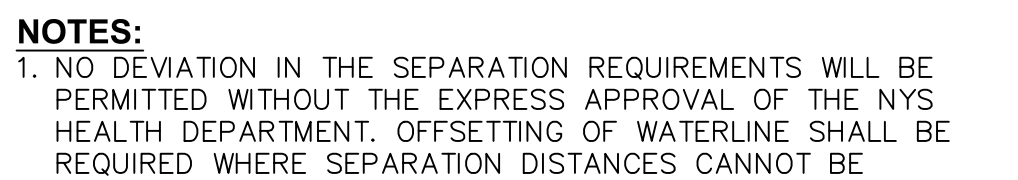
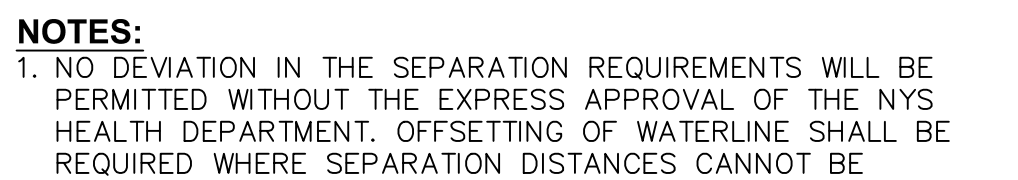
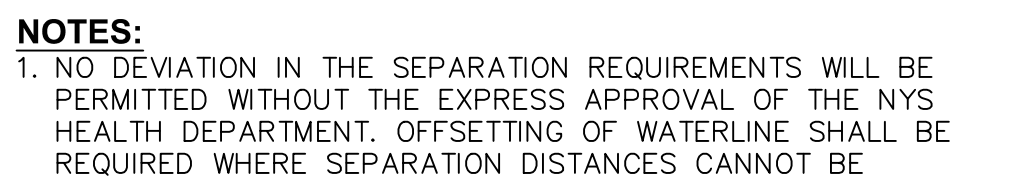
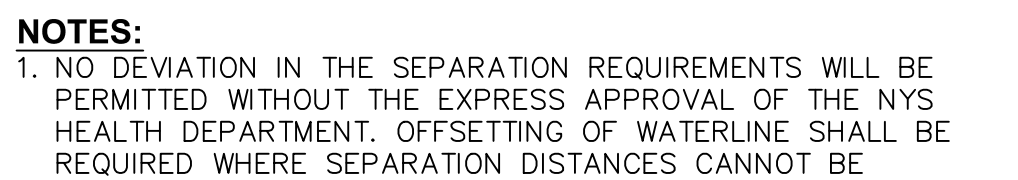
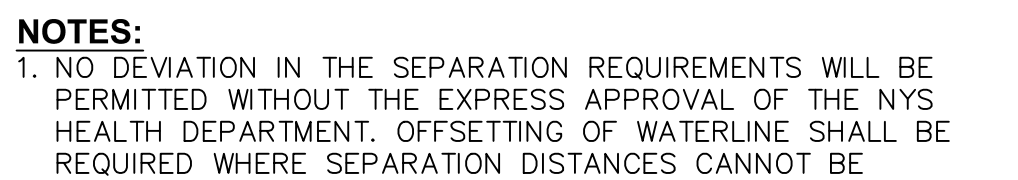
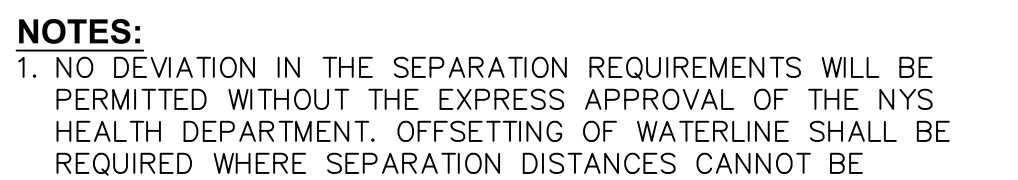
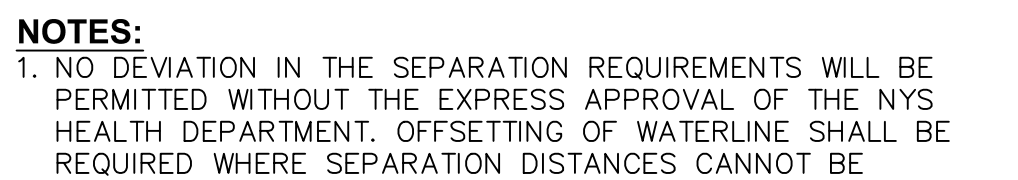
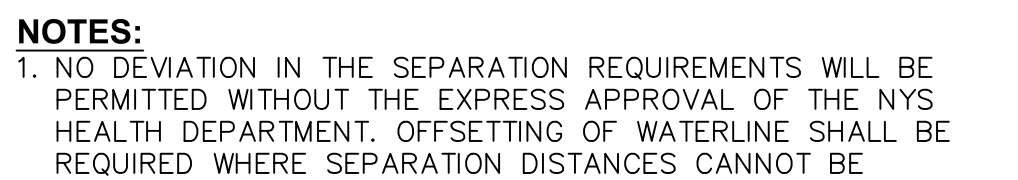
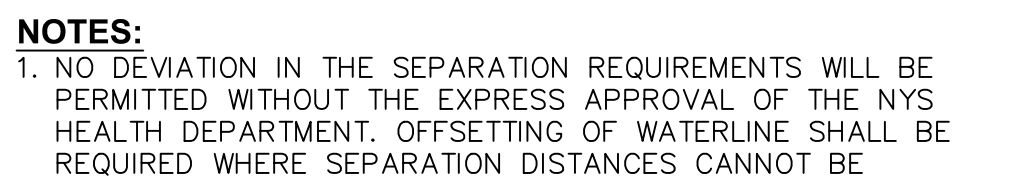
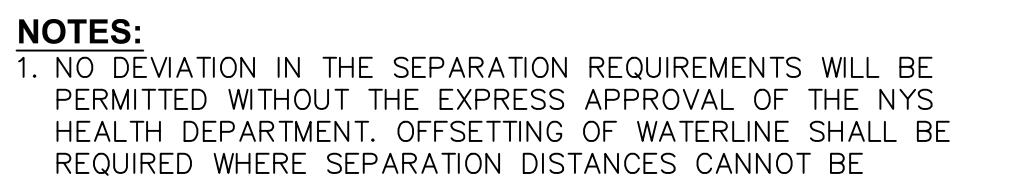
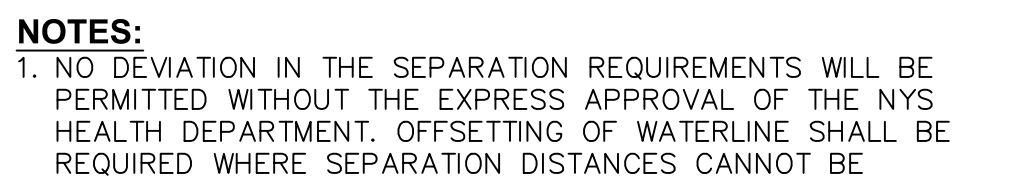
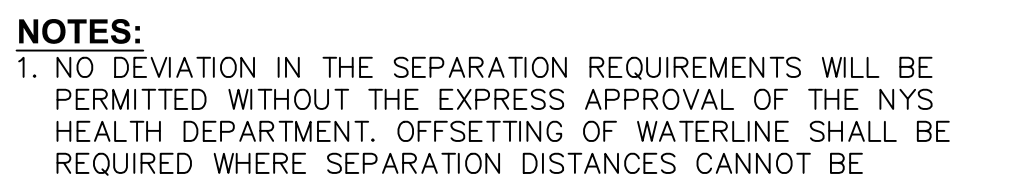
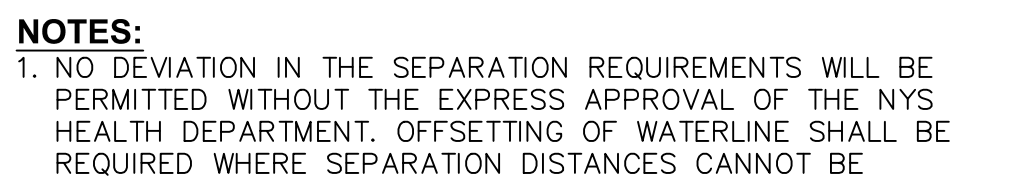
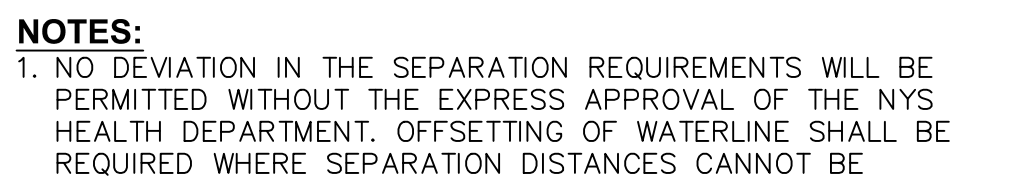
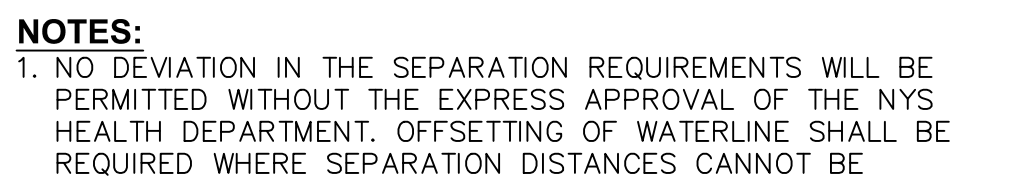
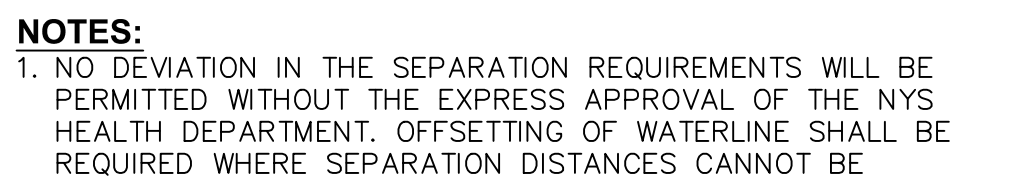
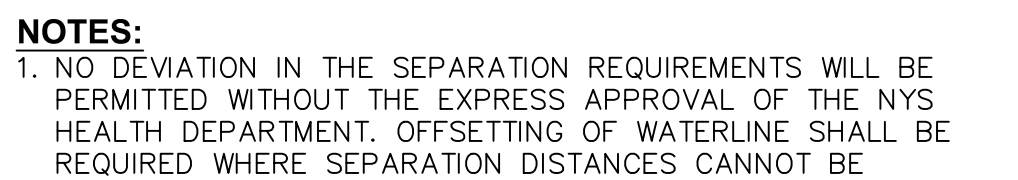
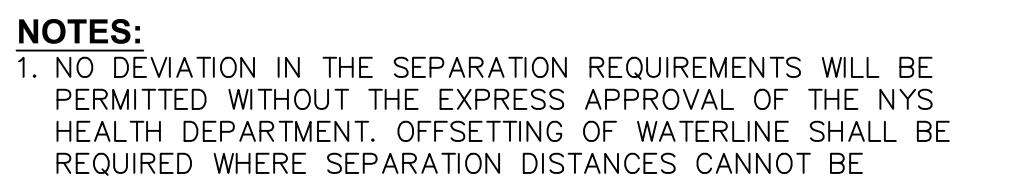
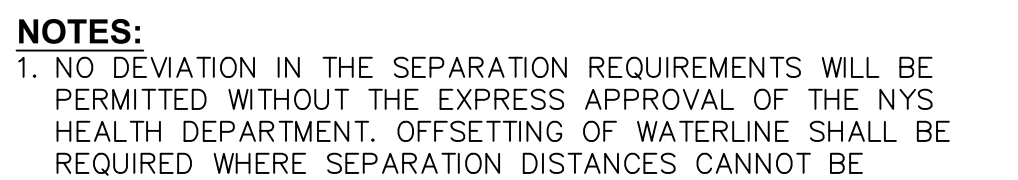
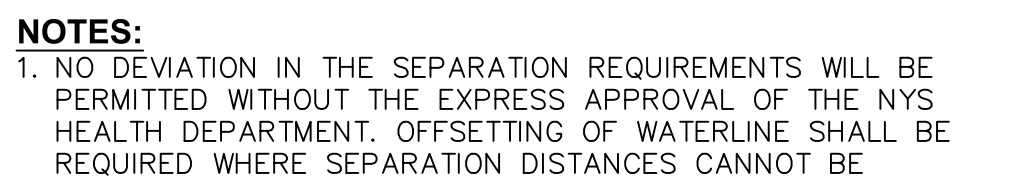
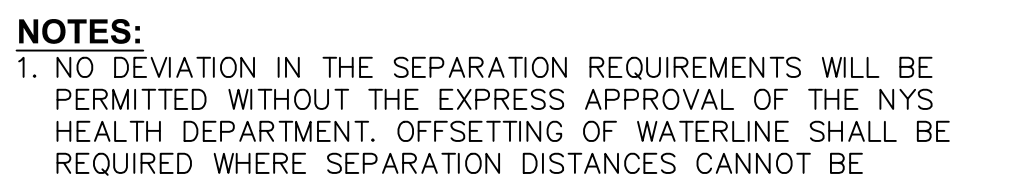
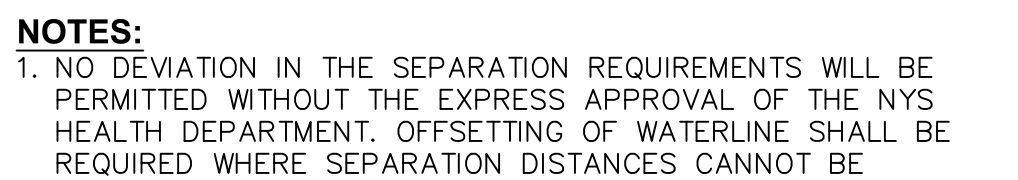
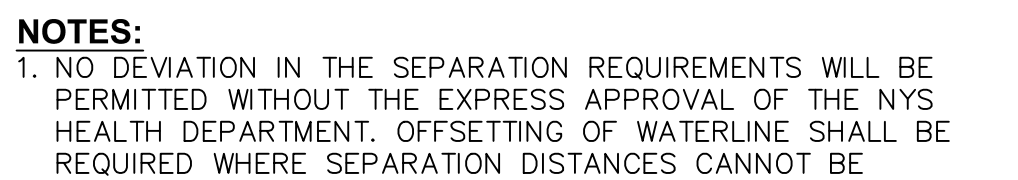
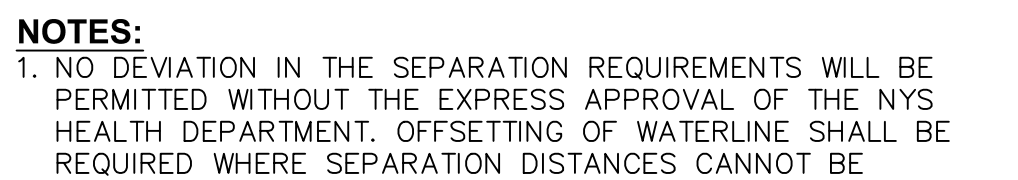
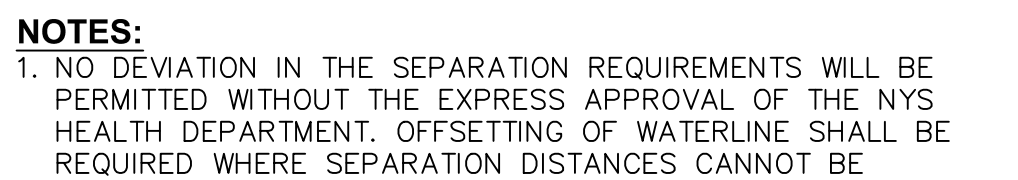
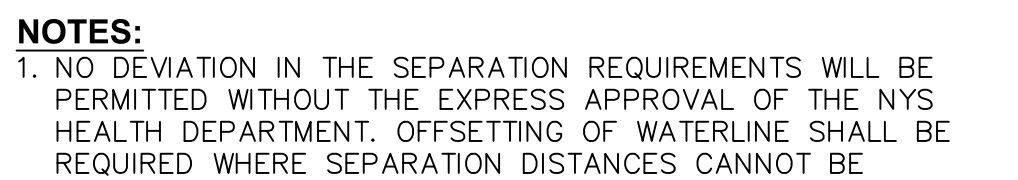
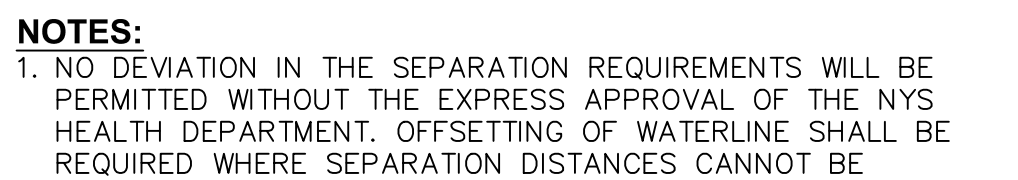
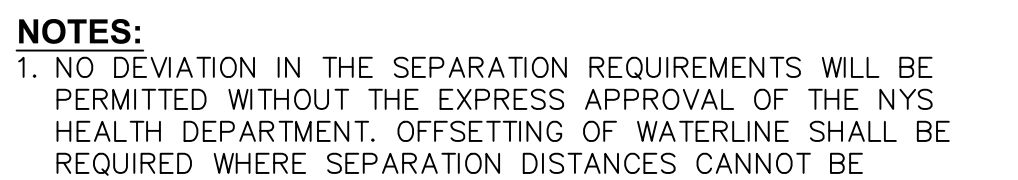
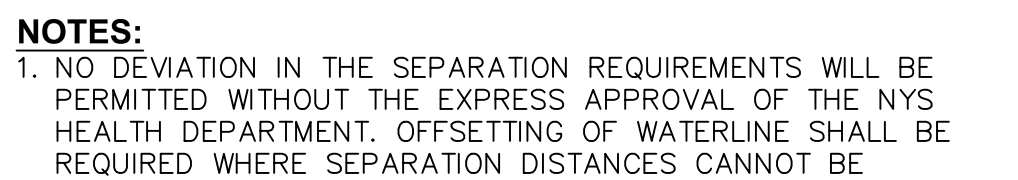
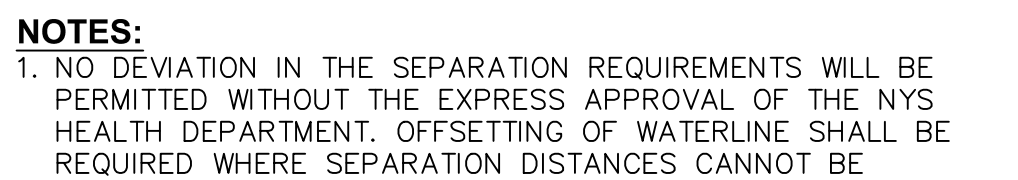
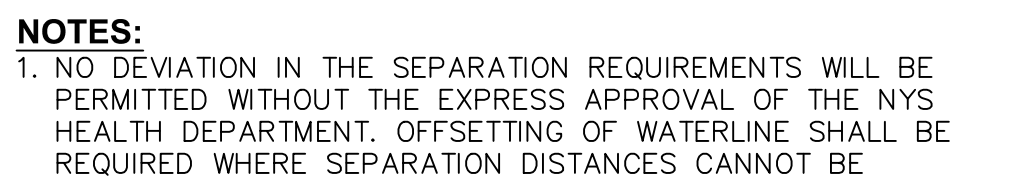
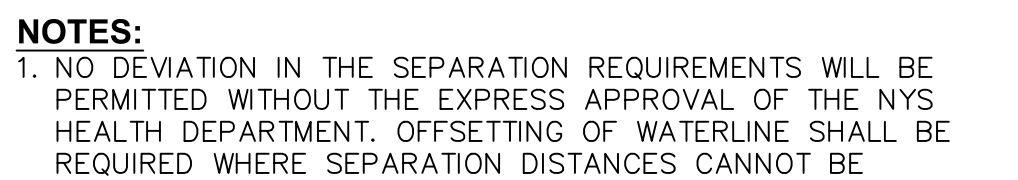
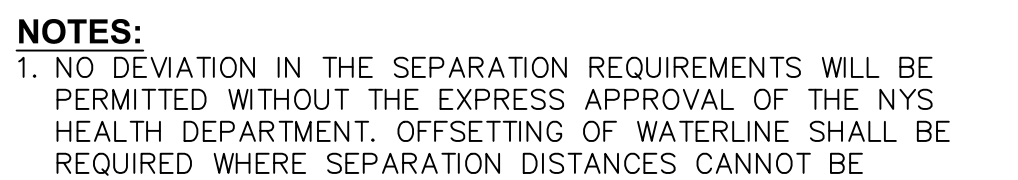
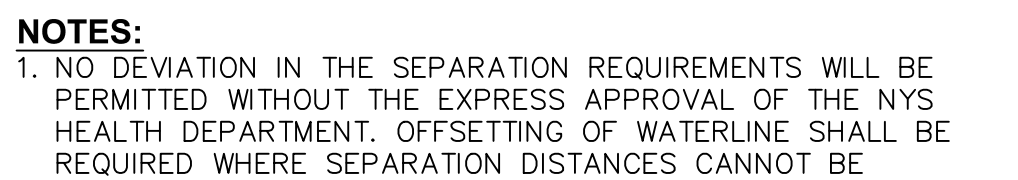
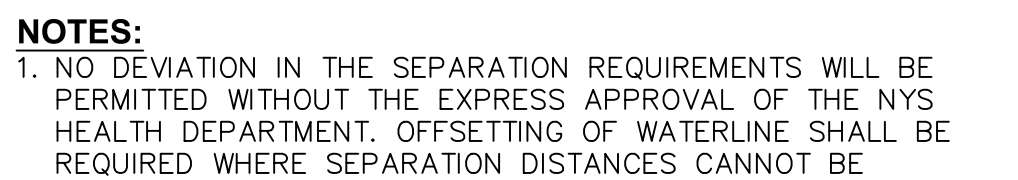
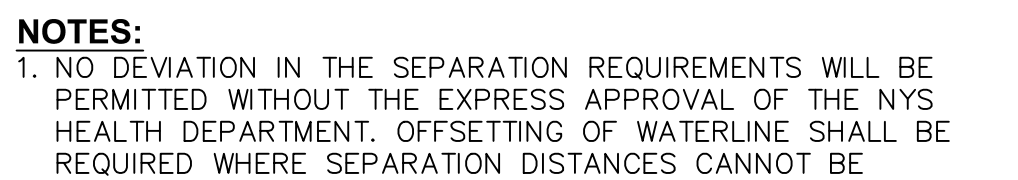
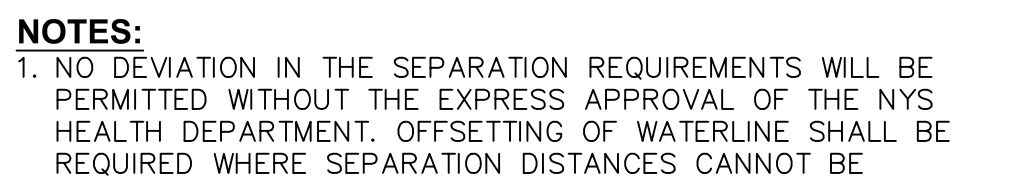
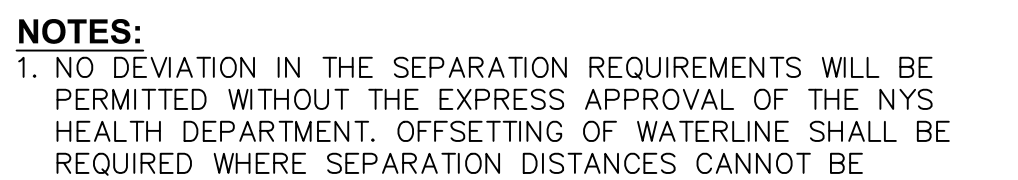
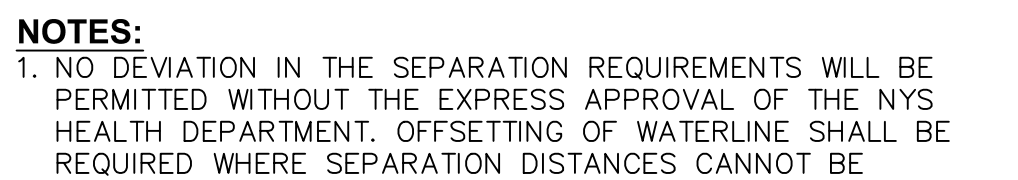
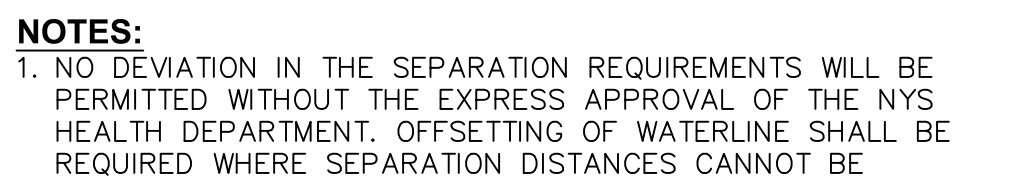
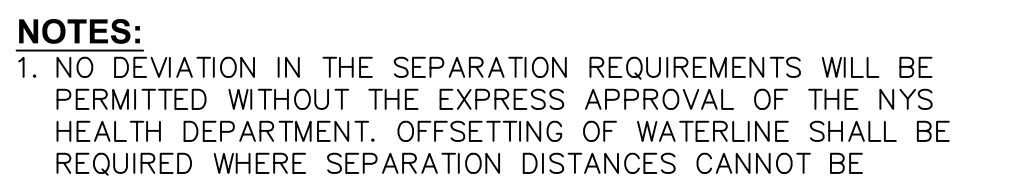
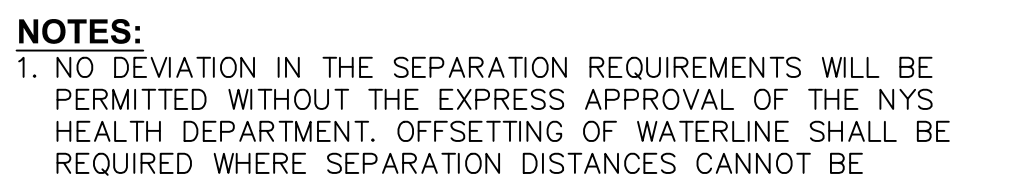
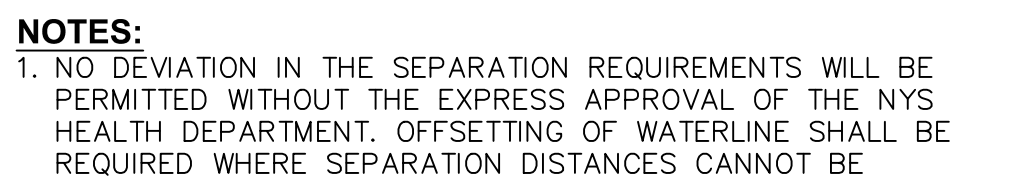
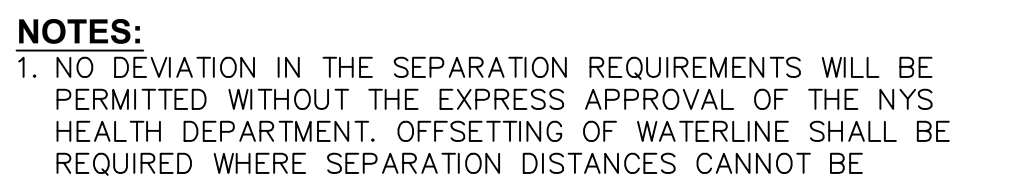
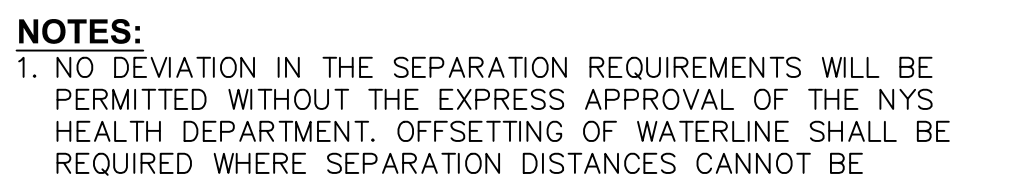
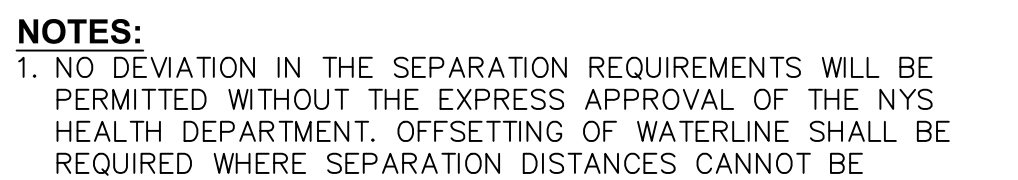
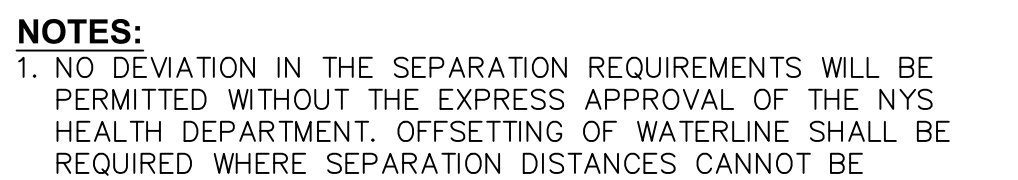
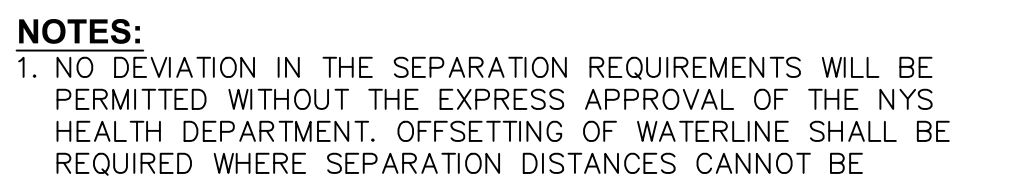
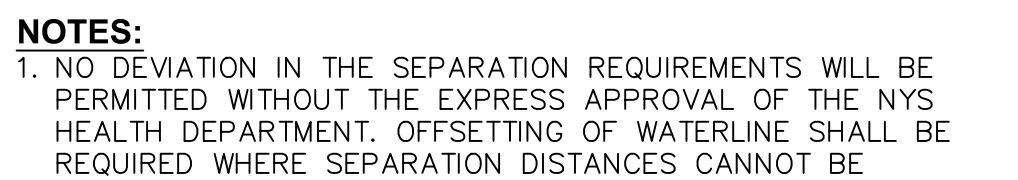
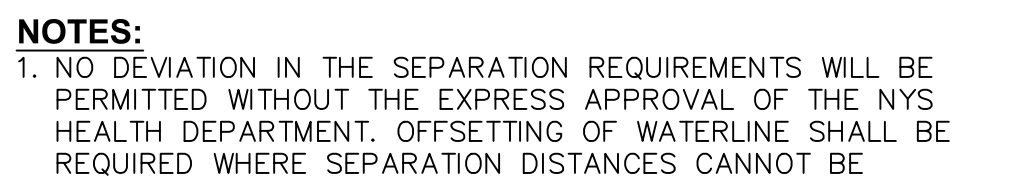
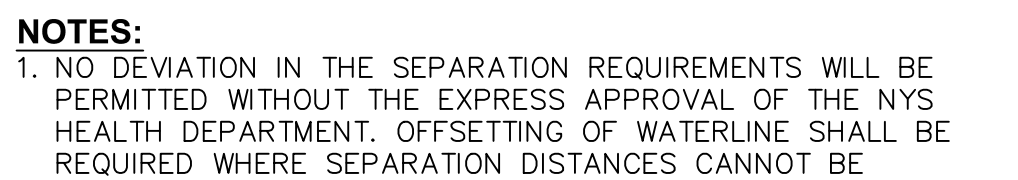
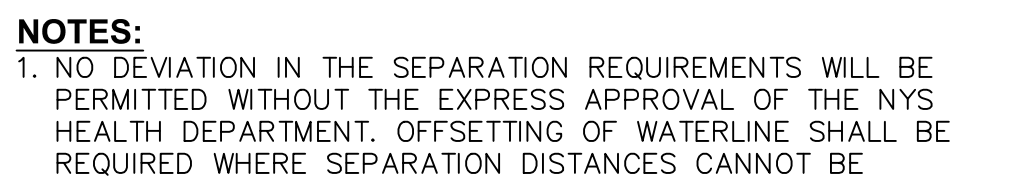
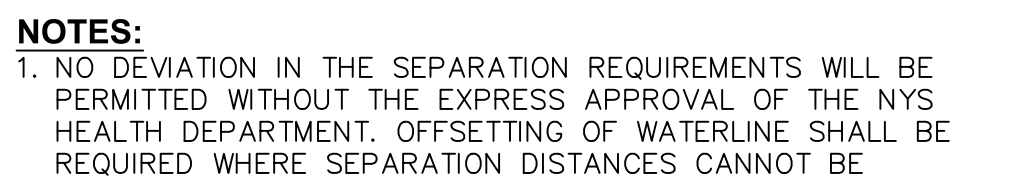
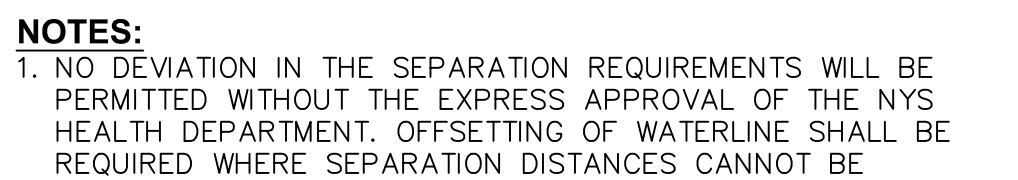
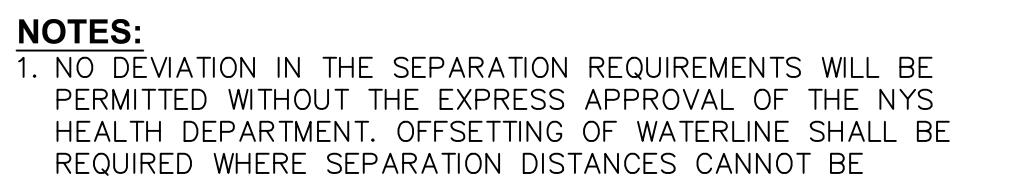
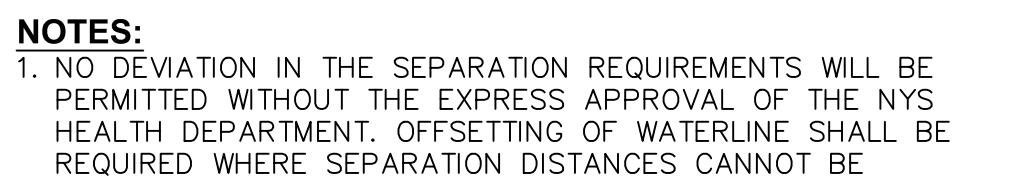
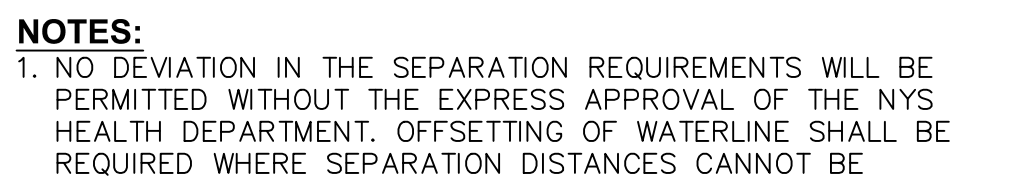
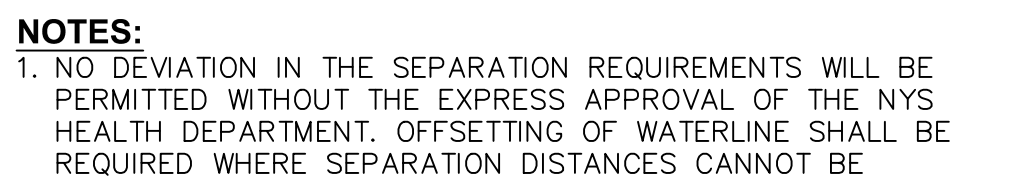
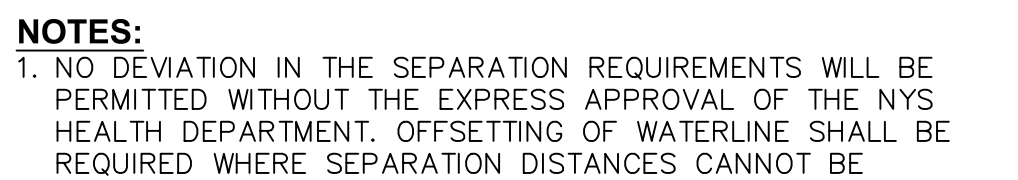
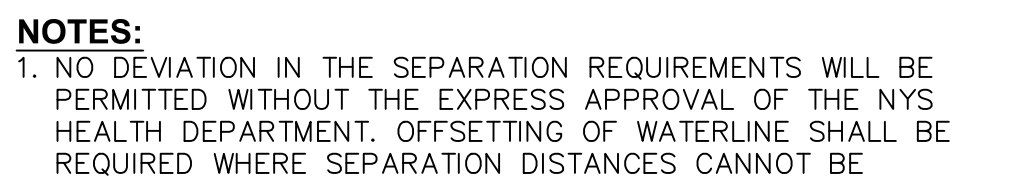
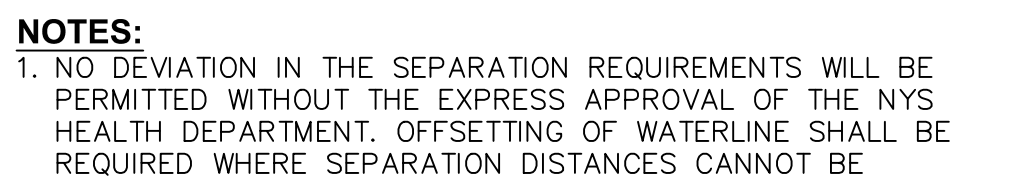
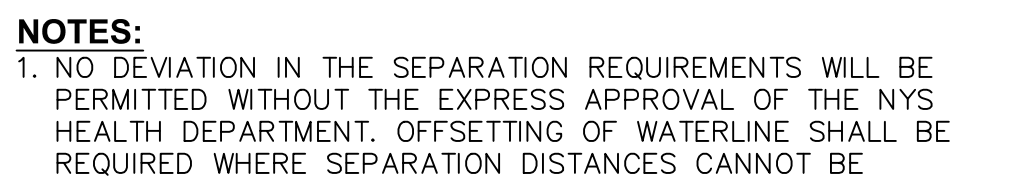
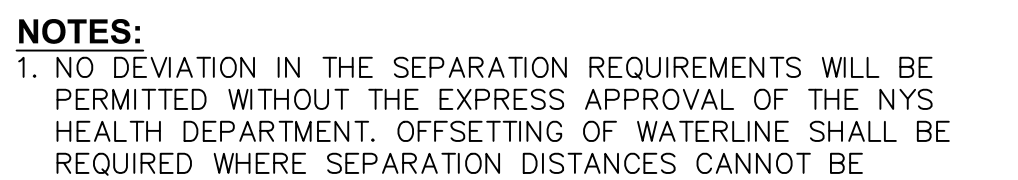
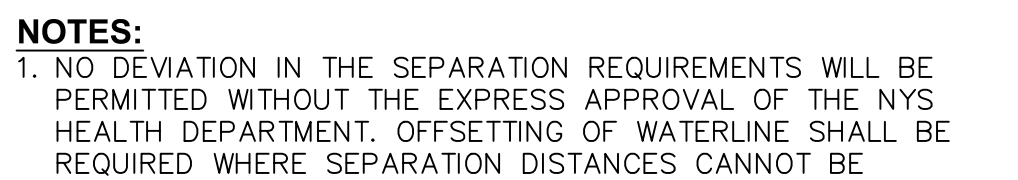
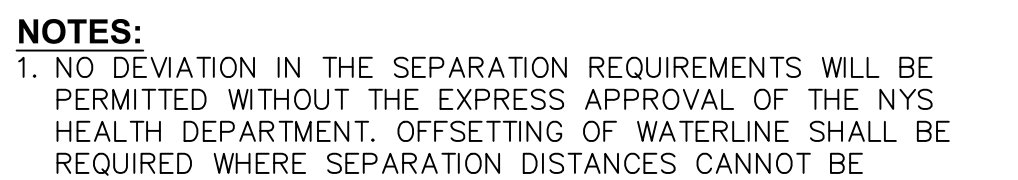
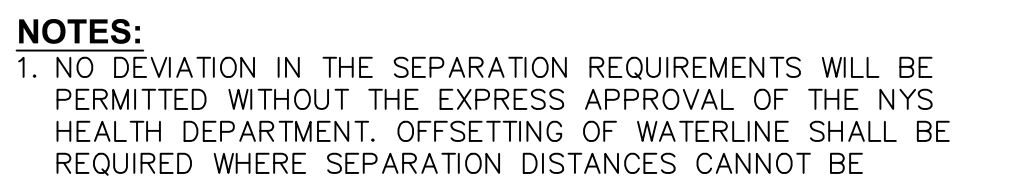
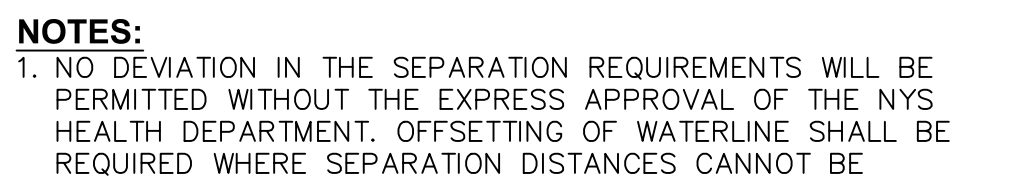
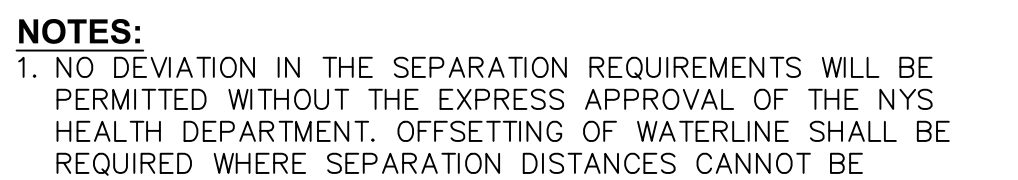
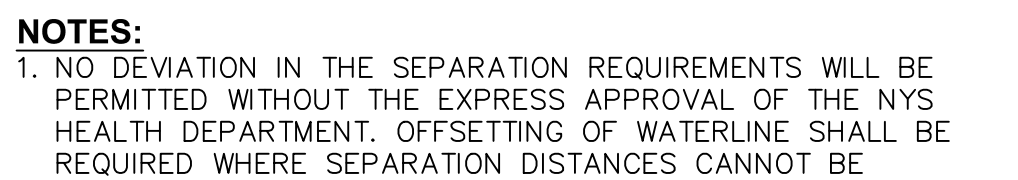
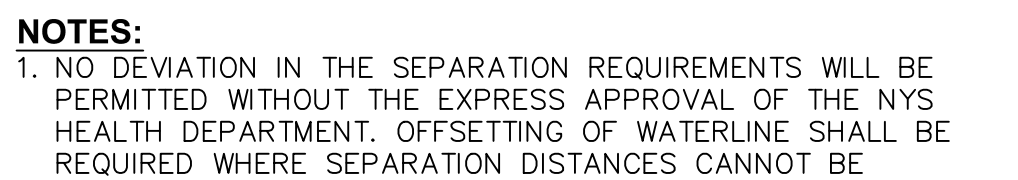
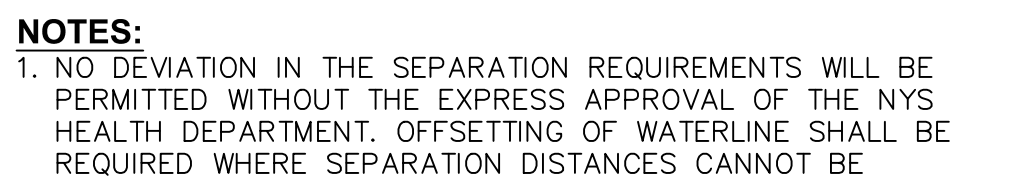
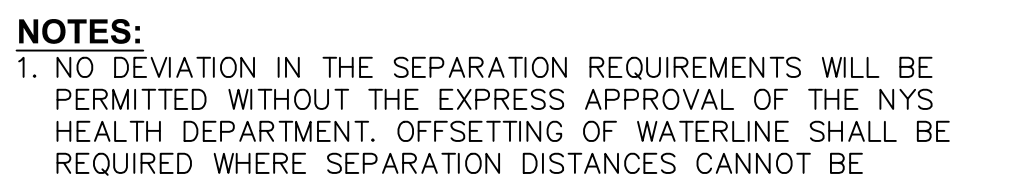
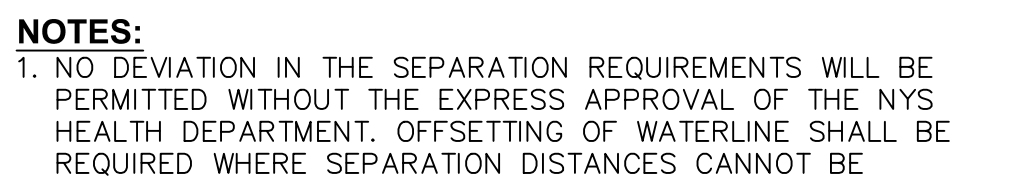
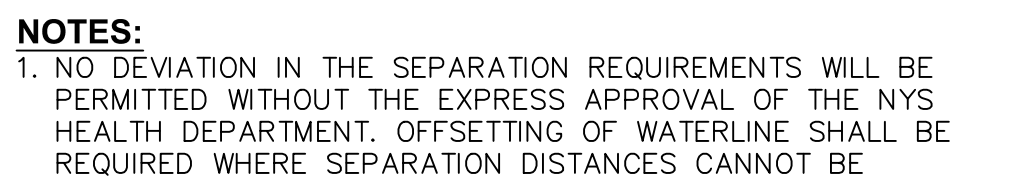
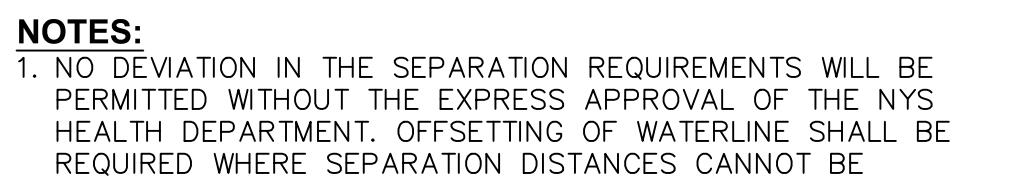
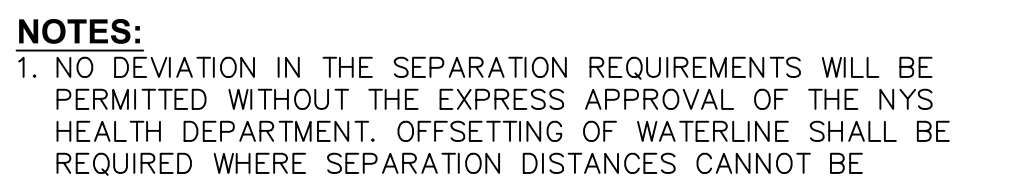
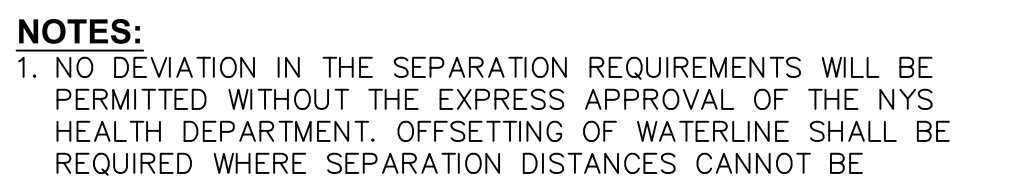
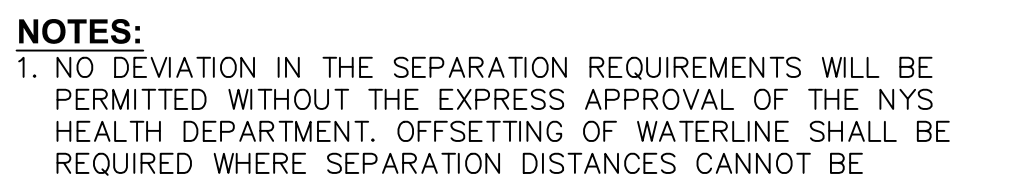
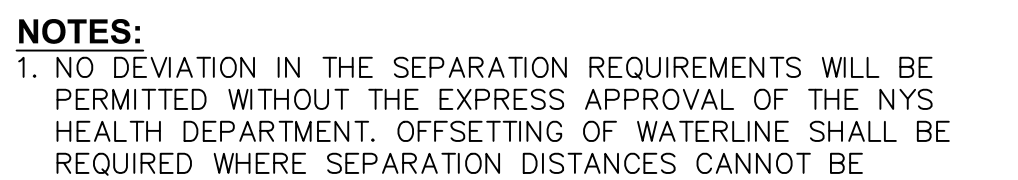
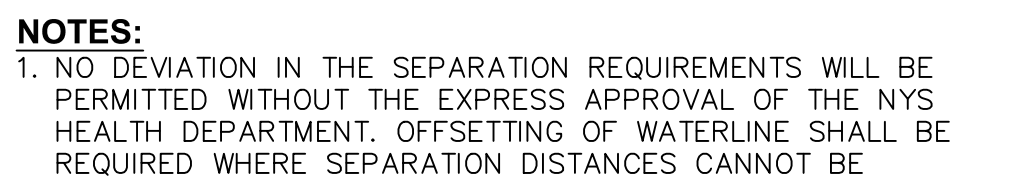
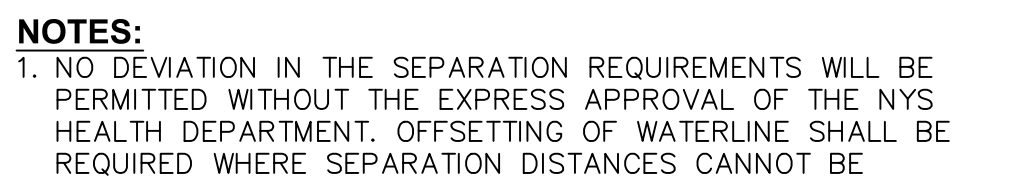
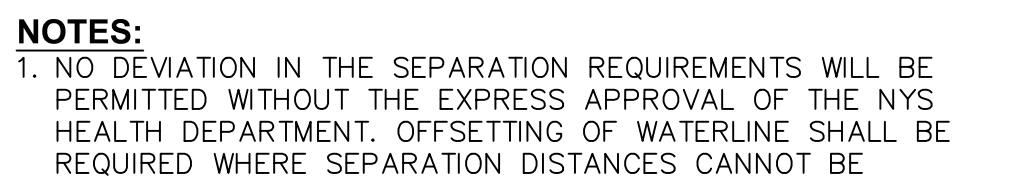
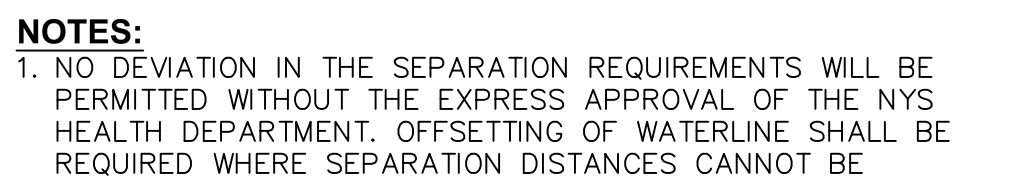
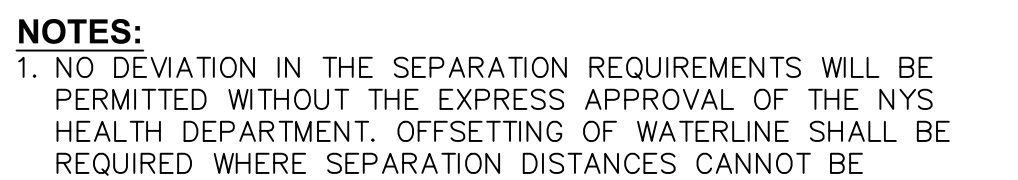
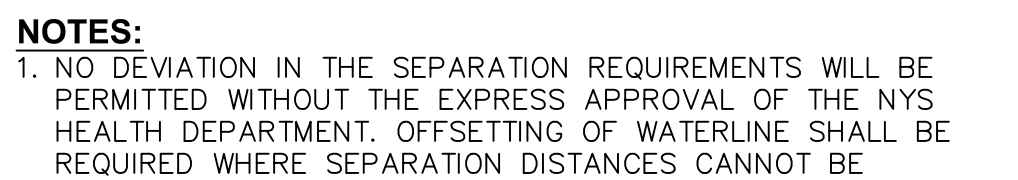
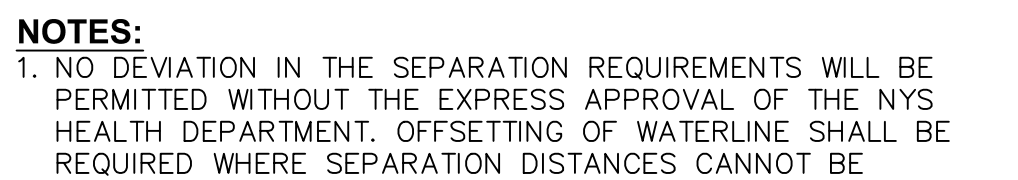
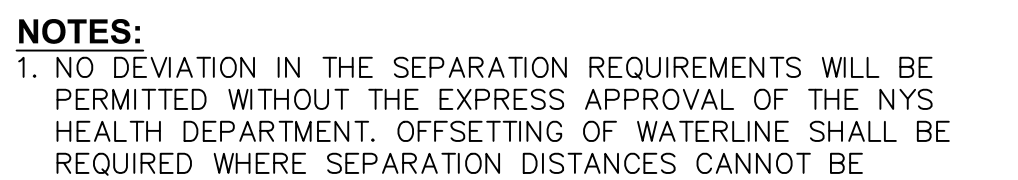


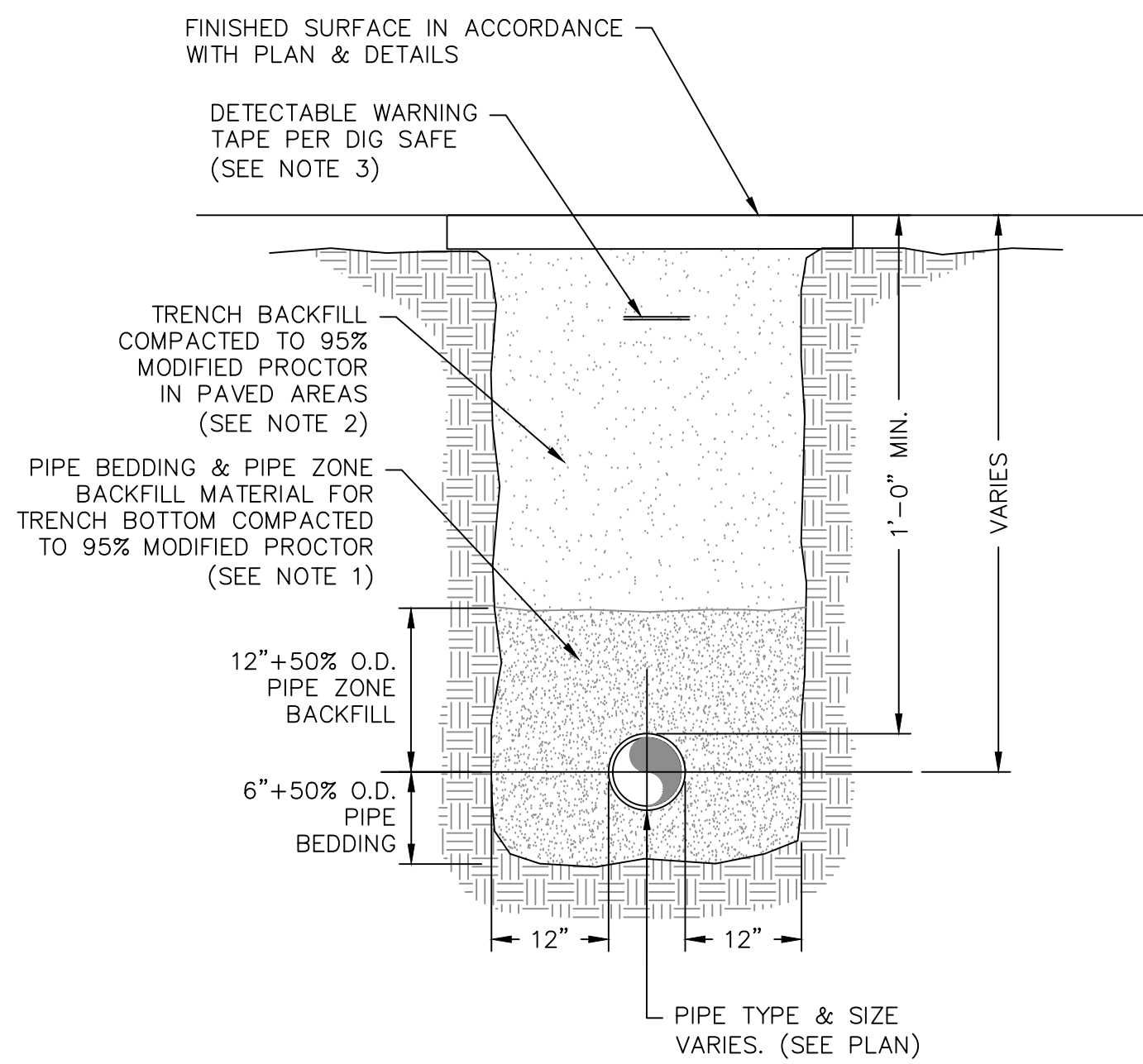
CONCRETE THRUST BLOCK DETAILS

SCALE: NOT TO SCALE



HORIZONTAL SEPARATION





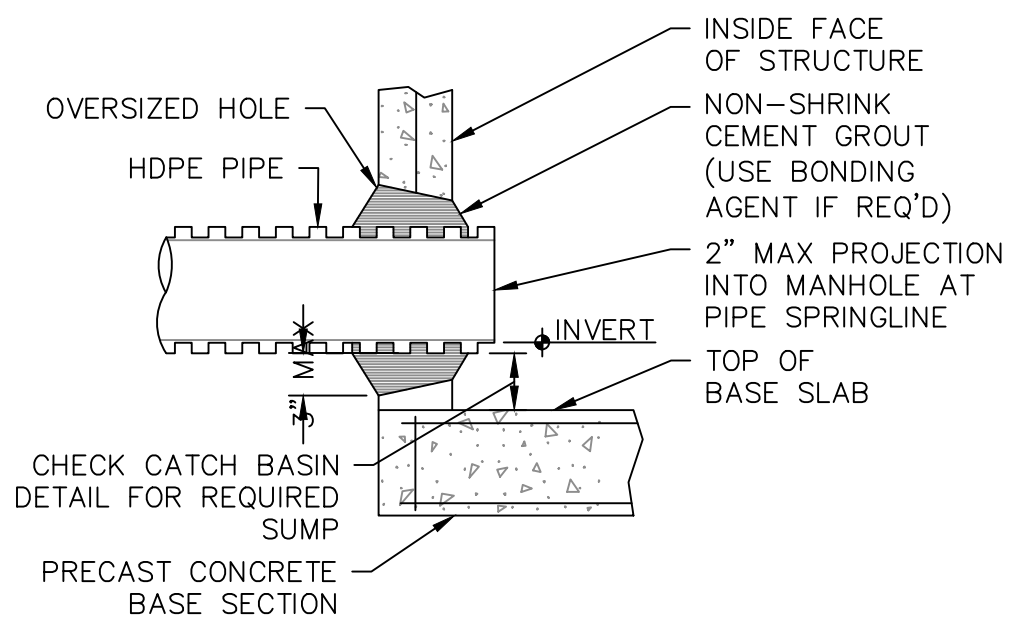
1 **PIPE TRENCH DETAIL (TYPICAL)**
C-510.2 SCALE: NOT TO SCALE

NOTES:

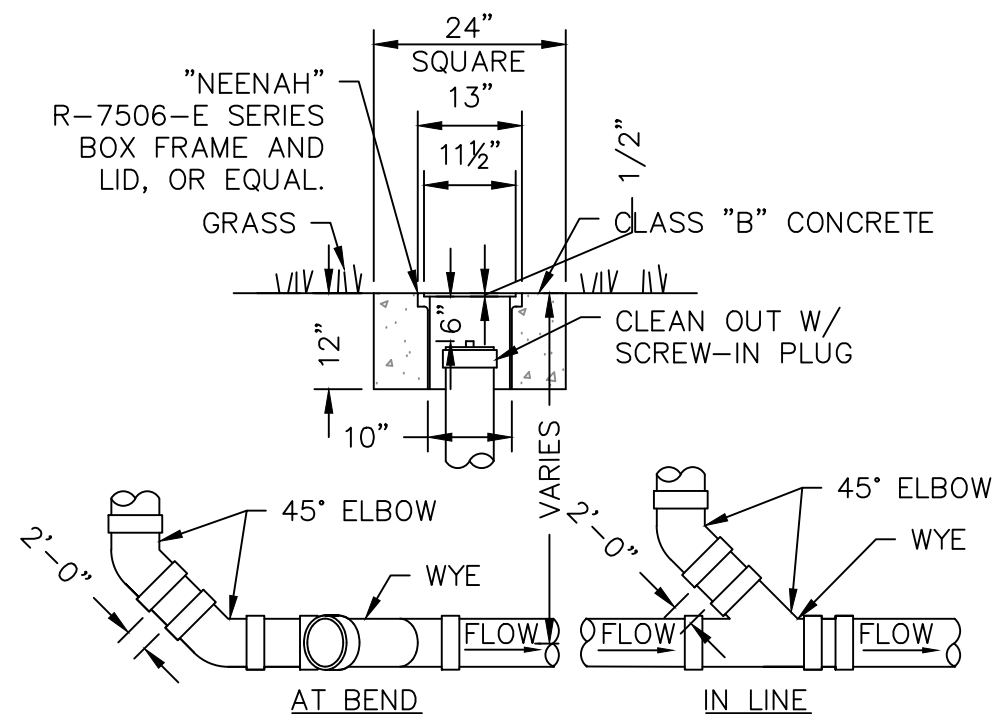
- PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%
- TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
4"	100%
NO. 40	0-70%
NO. 200	0-10%
- IN UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER.
- MAXIMUM LIFT THICKNESS SHALL BE 6"
- INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR ALL TYPES OF UNDERGROUND UTILITY PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.
- TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

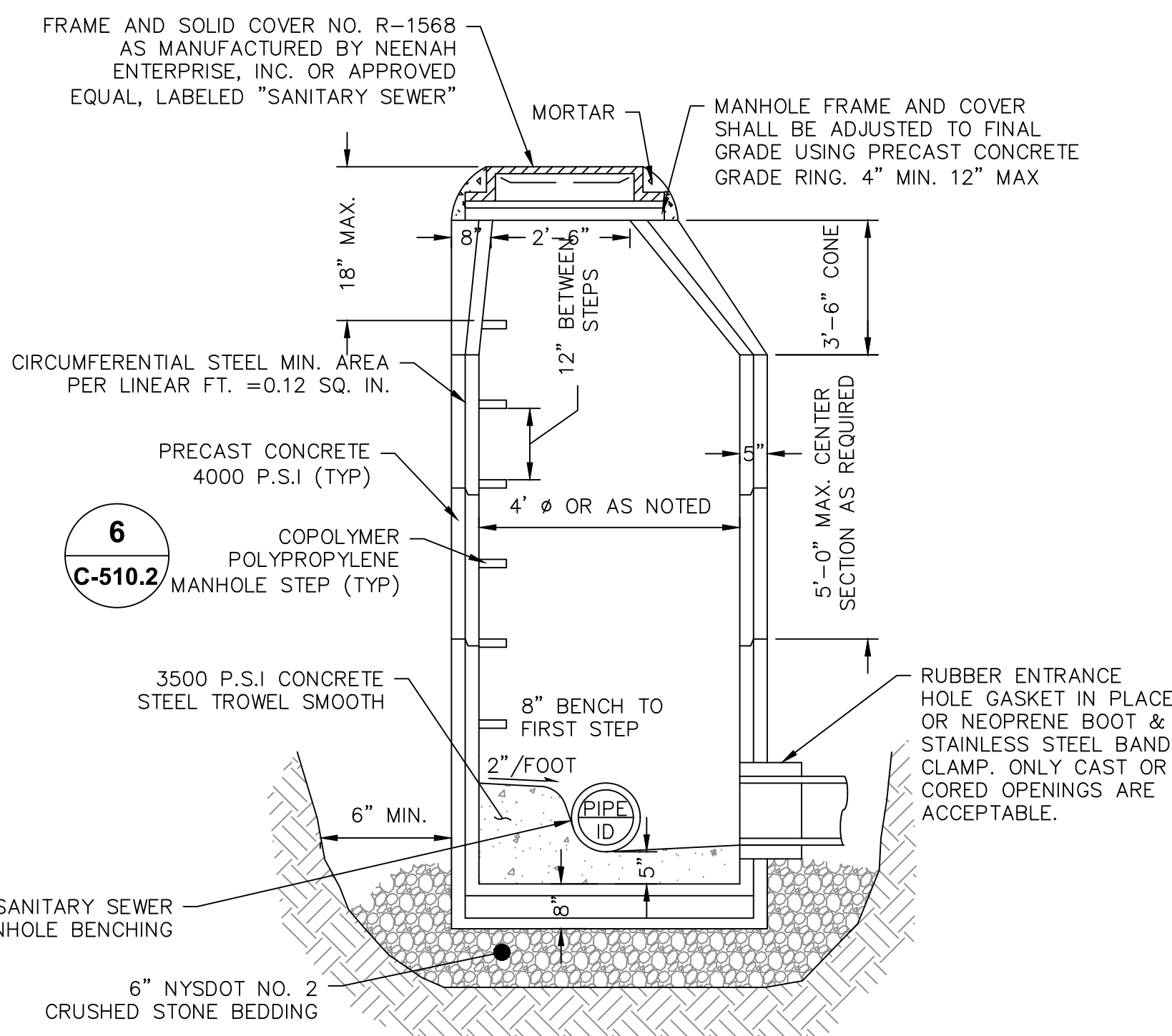


3 **HDPE PIPE GROUT SEAL JOINT TO DRAINAGE STRUCTURE**
C-510.2 SCALE: NOT TO SCALE

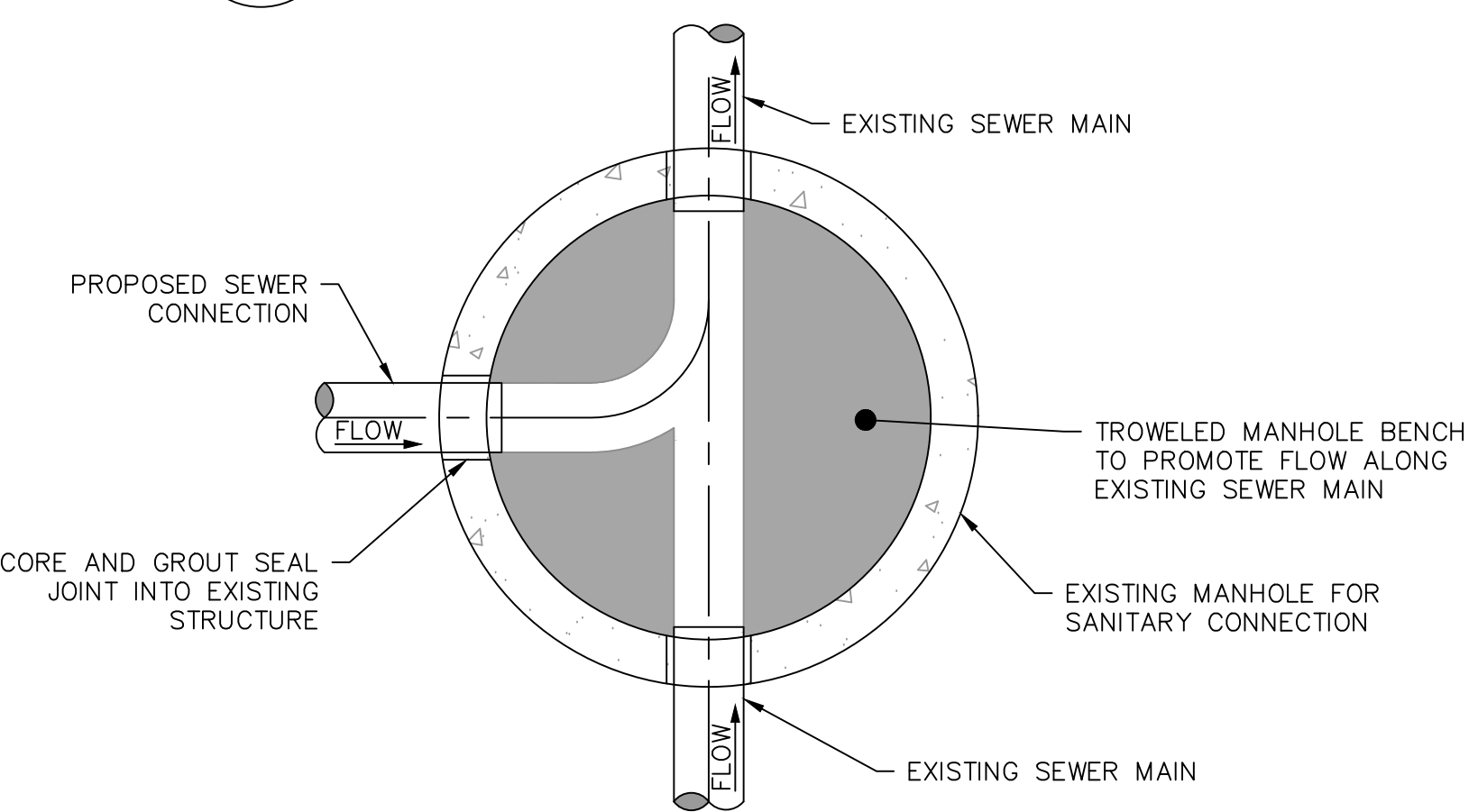


- NOTES:
- SEWER PIPE FITTINGS TO BE ASTM D-3033 OR D-3034 SDR-35.
 - TO BE USED FOR GRAVITY PORTION OF SANITARY SYSTEM AS WELL AS THE STORM ROOF DRAINAGE SYSTEM.

5 **SANITARY SEWER CLEANOUT**
C-510.2 SCALE: NOT TO SCALE



2 **SANITARY SEWER MANHOLE**
C-510.2 SCALE: NOT TO SCALE



4 **SANITARY SEWER MANHOLE BENCHING DETAIL**
C-510.2 SCALE: NOT TO SCALE

ACCEPTABLE MANHOLE STEPS						
MANUFACTURER	PATTERN NUMBER	"A" STEP WIDTH	"B" LEG LENGTH	"C" RING CLEAR	"D" EMBEDMENT	"E" RING CLEAR
M.A. INDUSTRIES INC*	PS2-PF	15 7/16	9 3/8	14	3 3/8	6"
M.A. INDUSTRIES INC*	PS2-PFS	15 7/16	8 1/2	14	3 3/8	5 1/8"

* OR EQUIVALENT

SECTION A

3" GRADE 60 STEEL REINFORCEMENT

SECTION A

- NOTE:
- MH STEP DESIGN AND INSTALLATION SHALL COMPLY WITH ALL OSHA REGULATIONS.
 - CAST IN PLACE OR PRESS FIT ACCEPTABLE.

6 **COPOLYMER POLYPROPYLENE MH STEP**
C-510.2 SCALE: NOT TO SCALE

TESTING GRAVITY SEWER SYSTEM:

- CONTRACTOR SHALL INSPECT AND TEST THE INSTALLATIONS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION WHEN WORK IS READY FOR TESTING. AFTER ALL TESTS HAVE BEEN PERFORMED, EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE.
- THE CONTRACTOR SHALL TEST AND INSPECT FOR ALIGNMENT AND INFILTRATION AND EXFILTRATION OF ALL SANITARY SEWERS AND RELATED UTILITY STRUCTURES. INFILTRATION OR EXFILTRATION OF THE SANITARY SEWER SYSTEM SHALL NOT EXCEED 0.80 GAL/INCH OF INTERNAL PIPE DIAMETER PER 1000' OF PIPELINE PER HOUR WITH A MINIMUM HYDROSTATIC HEAD AT THE TOP OF THE PIPE OF 2 FT. OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. WHEN INFILTRATION OR EXFILTRATION OCCURS IN EXCESS OF ALLOWABLE AMOUNT, DEFECTS SHALL BE LOCATED AND REPAIRED.
- INFILTRATION LEAKAGE TESTS SHALL BE RUN ON EACH SINGLE MANHOLE-TO-MANHOLE SECTION, OR REACH, INDEPENDENTLY OF ALL OTHER MANHOLE-TO-MANHOLE SECTIONS. A PIPELINE SECTION UNDER TEST SHALL INCLUDE ALL PIPE AND FITTINGS BETWEEN THE TWO MANHOLES PLUS THE UPSTREAM MANHOLE.
- EACH MANHOLE-TO-MANHOLE SECTION SHALL BE REJECTED OR ACCEPTED BASED ONLY ON RESULTS OF ITS OWN INDEPENDENT SECTION TEST AND NOT ON RESULTS OF ANY ONE TEST RUN SIMULTANEOUSLY OVER MORE THAN ONE CONSECUTIVE MANHOLE-TO-MANHOLE SECTION. THE ONLY EXCEPTION ALLOWED: ACCEPTING SEVERAL CONSECUTIVE MANHOLE-TO-MANHOLE SECTIONS BASED ON ONE COMBINED INFILTRATION TEST INDICATING ZERO INFILTRATION.
- INFILTRATION TESTS SHALL BE MADE BY INSTALLING A FLOW MEASURING DEVICE IN THE DOWNSTREAM MANHOLE OF SECTION BEING TESTED. TEST DURATION SHALL BE 24 HRS, OR FOR SHORTER PERIOD, PROVIDED A STEADY STATE FLOW CONDITION HAS BEEN ACHIEVED IN THE TEST PERIOD, AND RESULTS PROJECTED TO A 24 HR PERIOD.
- EXFILTRATION TESTS SHALL BE RUN ON EACH SINGLE MANHOLE-TO-MANHOLE SECTION, OR REACH, INDEPENDENTLY OF ALL OTHER MANHOLE-TO-MANHOLE SECTIONS. A PIPELINE SECTION UNDER TEST SHALL INCLUDE ALL PIPE AND FITTINGS BETWEEN THE TWO MANHOLES PLUS THE UPSTREAM MANHOLE.
- EXFILTRATION TESTS SHALL BE MADE BY MEASURING THE DROP IN WATER ELEVATION IN THE UPSTREAM MANHOLE 24 HRS AFTER INITIAL WATER LEVEL IS RECORDED. INITIAL WATER LEVEL IN UPSTREAM MANHOLE SHALL BE 2 FEET HIGHER THAN EITHER THE TOP OF PIPE OR GROUNDWATER ELEVATION AT THE DOWNSTREAM MANHOLE. ANY MANHOLE-TO-MANHOLE SECTION UNDERGOING AN EXFILTRATION TEST MUST HAVE THE NEXT ADJACENT SECTIONS, BOTH UPSTREAM AND DOWNSTREAM, DRY AND NOT UNDER TEST. THIS PROCEDURE MINIMIZES HYDROSTATIC PRESSURE PLACED ON STOPPERS, PLUGS, AND END CAPS.
- LOW PRESSURE AIR TESTING MAY BE ALLOWED IN LIEU OF EXFILTRATION TESTS ONLY. WHEN SO ALLOWED, TEST SHALL BE PERFORMED UNDER DIRECTION OF ENGINEER ACCORDING TO ASTM F1417. LOW PRESSURE AIR TEST IS A COMPARISON OF THE MEASURED TIME NECESSARY FOR ONE (1) PSIG PRESSURE DROP TO OCCUR, IF AT ALL, WITH MINIMUM ALLOWABLE TIME FOR THAT PRESSURE DROP TO OCCUR DETERMINED BY METHODS INDICATED IN ASTM F1417. IF THE ONE (1) PSIG PRESSURE DROP OCCURS FASTER THAN ALLOWABLE TIME, SECTION IS UNACCEPTABLE.
- AN AIR TEST SHALL NOT BE RUN UNTIL SECTION OF LINE TO BE TESTED HAS BEEN CLEANED OF ALL FOREIGN MATERIAL BY FLUSHING AND HAS BEEN VISUALLY INSPECTED AND APPROVED BY THE ENGINEER. CERTAIN PIPE MATERIALS PRODUCE MORE CONSISTENT RESULTS WHEN INTERIOR OF PIPE IS WETTED PRIOR TO TESTING.
- WHERE AIR-TESTING IS TO BE USED FOR LINE ACCEPTANCE, CORROBORATIVE HYDROSTATIC TESTING SHALL BE PERFORMED ON SEWER INSTALLATION OF THE SAME PIPE SIZE, MATERIAL, AND CONDITIONS OF INSTALLATION. SEWER SECTIONS WHICH INDICATE RATES OF AIR LOSS PER UNIT OF SURFACE AREA WHICH MOST NEARLY APPROXIMATE RATE FOR PIPELINE ACCEPTANCE SHOULD BE SELECTED FOR CORROBORATIVE TESTS. AT LEAST 3 SECTIONS ARE TO BE SO TESTED. THE PURPOSE OF THESE CORROBORATIVE TESTS IS TO PERMIT A REASONABLE ASSUMPTION THAT, IF THESE 3 TEST SECTIONS MEET THE HYDROSTATIC TEST, THE BALANCE OF PROJECT ALSO MEETS OR EXCEEDS THESE REQUIREMENTS. IF AIR TEST IS NOT SUPPORTED BY ACCEPTABLE CORROBORATIVE HYDROSTATIC TESTS, COMPLETE HYDRO-STATIC TESTING OF SEWER LINES SHALL BE REQUIRED.
- WHERE FLEXIBLE PIPE IS USED, CONTRACTOR SHALL TEST ALL MAINLINE PIPE FOR MAXIMUM ALLOWABLE DEFLECTION OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTS SHALL BE PERFORMED USING A CIRCULAR STEEL BALL ON SLED 1/16-INCH IN DIAMETER SMALLER THAN ALLOWABLE INSIDE DIAMETER OF FLEXIBLE PIPE WHEN DEFLECTED A MAXIMUM OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTING OF ANY PIPE SHALL BE DONE NO SOONER THAN 30 DAYS AFTER DATE OF INSTALLATION OF PIPE SECTION UNLESS WRITTEN EXCEPTION.
- SEWERS SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES. STRAIGHT ALIGNMENT SHALL BE CHECKED EITHER USING A LASER BEAM OR LAMPING. TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED, SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- IN AREAS WHERE CONVENTIONAL TESTING IS IMPRACTICAL (I.E. AREAS DESIGNATED BY ENGINEER WHERE EXISTING SERVICES ARE TIED INTO NEW LINE IMMEDIATELY AND ANY BLOCKAGE COULD RESULT IN HEALTH PROBLEMS) NO LINES SHALL BE BACKFILLED UNTIL EACH PIPE SECTION AND CONNECTION IS INSPECTED AND APPROVED.
- WHERE SEWERS ARE CONSTRUCTED OF PRESSURE-RATED PIPE AND INSTALLED WITH LESS THAN 18 INCHES VERTICAL SEPARATION FROM EXISTING OR PROPOSED WATER MAINS, SEWERS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI TO ASSURE WATER TIGHTNESS. HYDROSTATIC ACCEPTANCE TESTS SHALL BE CONDUCTED AS SPECIFIED FOR TESTING WATER MAINS, EXCEPT THAT TESTING MAY BE PERFORMED WITH THE PIPE SECTION PARTIALLY BACK-FILLED.
- IF THE ALLOWABLE RATE OF INFILTRATION, EXFILTRATION, OR AIR LEAKAGE IS EXCEEDED, THE CONTRACTOR SHALL LOCATE POINTS OF EXCESSIVE LEAKAGE AND SHALL PROMPTLY CORRECT, REPAIR, AND BRING SYSTEM UP TO THE STANDARD. COSTS OF ALL SUCH REPAIRS AND CORRECTIVE MEASURES, INCLUDING COSTS OF REPEATED TESTS, SHALL BE BORN BY CONTRACTOR. THE SEWER LINE SECTION (INCLUDING MANHOLES AND BUILDING SERVICES) UNDER TEST SHALL NOT BE ACCEPTED UNTIL THESE TEST CRITERIA ARE MET.



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SEAL:



ESYO MacArthur
Renovation - Phase 2
45 MacArthur Drive, Schenectady, NY



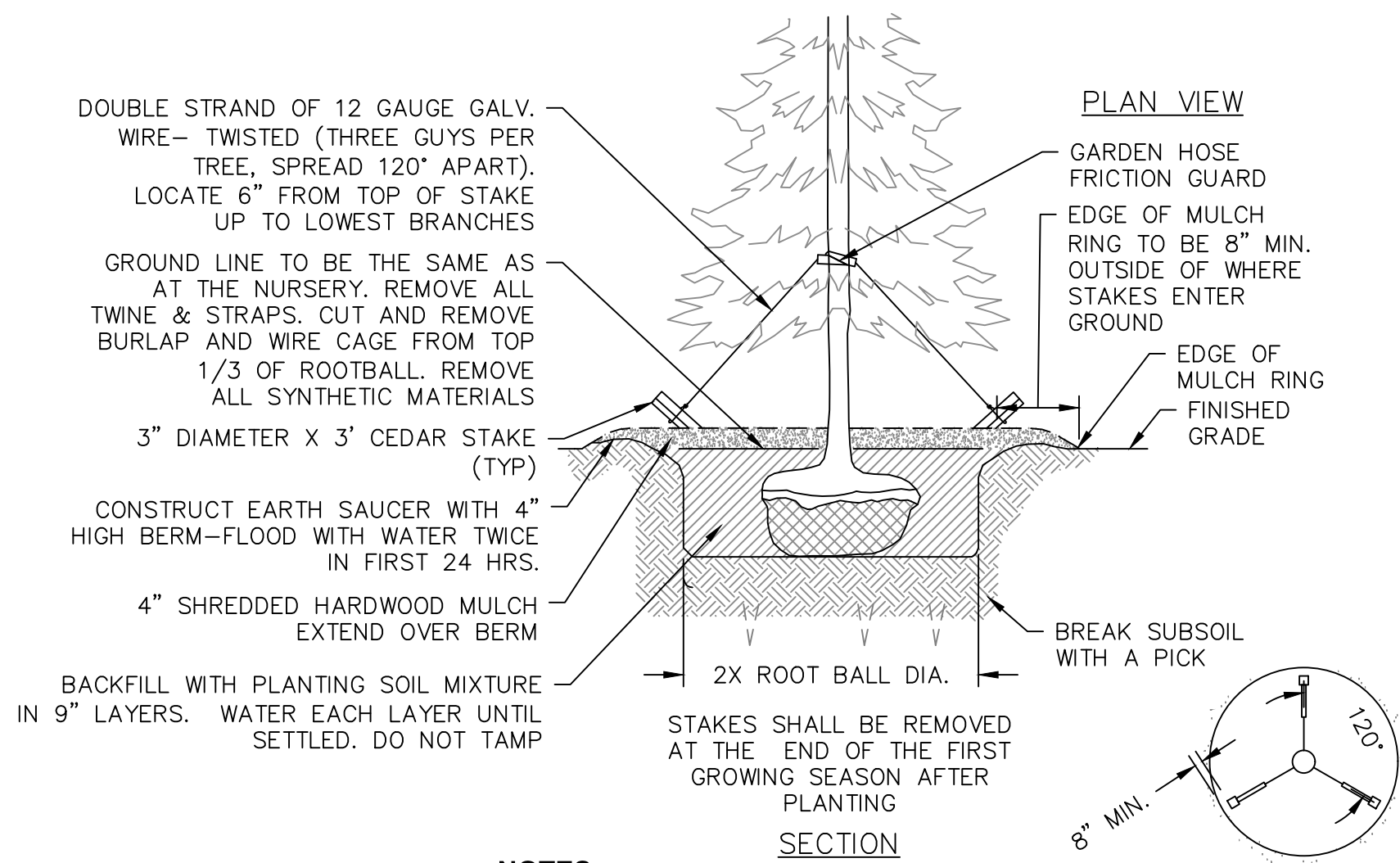
No.	Description	Date

It is a violation of the law for any person, unless acting under the direction of a licensed architect, to alter this document in any way.

SANITARY SEWER DETAILS

C-510.2

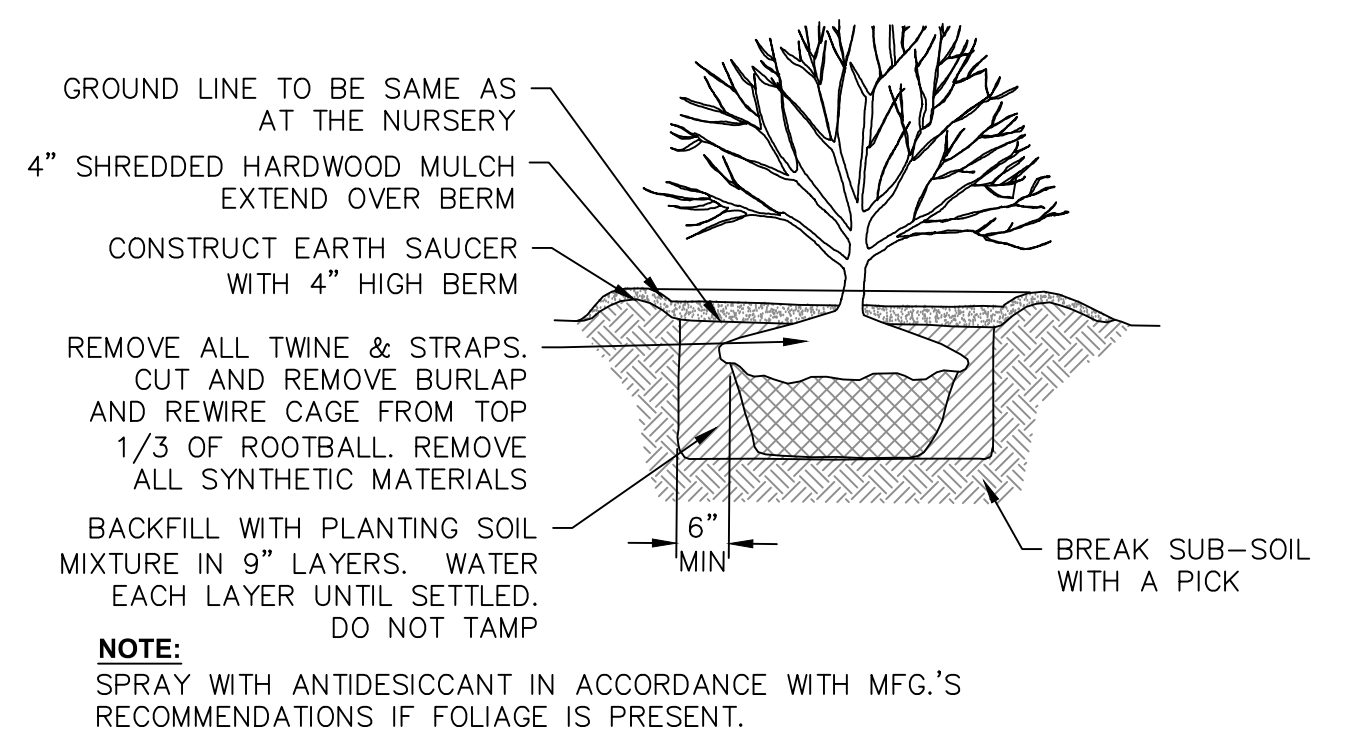
SITE PLAN REVIEW SCALE: AS INDICATED
ALB-2200103.02 03/20/2023



NOTES
1. TREES SHALL BE BALLED AND BURLAPPED

PLANTING AND GUYING FOR CONIFEROUS TREES SMALLER THAN 3" CALIPER

1
C-515.2 SCALE: NOT TO SCALE



SHRUB PLANTING DETAIL FOR ALL SHRUBS BALLED AND BURLAPPED

2
C-515.2 SCALE: NOT TO SCALE

NEW YORK STATE STOMRWATER MANAGEMENT DESIGN MANUAL: TABLE 5.3 SOIL RESTORATION REQUIREMENTS		
TYPE OF SOIL DISTURBANCE	SOIL RESTORATION REQUIREMENT	
NO SOIL DISTURBANCE	RESTORATION NOT PERMITTED	
MINIMAL SOIL DISTURBANCE	RESTORATION NOT REQUIRED	
AREAS WHERE TOPSOIL IS STRIPPED ONLY (NO CHANGE IN GRADE)	HSG A&B	HSG C&D
	APPLY 6" OF TOPSOIL	AERATE* AND APPLY 6" OF TOPSOIL
AREAS OF CUT OR FILL	HSG A&B	HSG C&D
	AERATE* AND APPLY 6" OF TOPSOIL	APPLY FULL SOIL RESTORATION**
HEAVY TRAFFIC AREAS ON SITE (ESPECIALLY WITHIN 5-25 FEET AROUND BUILDINGS BUT NOT WITHIN 5 FEET OF PERIMETER FOUNDATION WALLS)	APPLY FULL SOIL RESTORATION** (DE-COMPACTION AND COMPOST ENHANCEMENT)	
AREAS WHERE RUNOFF REDUCTION AND/OR INFILTRATION PRACTICES ARE APPLIED	RESTORATION NOT REQUIRED, BUT MAY BE APPLIED TO ENHANCE THE REDUCTION SPECIFIED FOR APPROPRIATE PRACTICES	
REDEVELOPMENT PROJECTS	SOIL RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING IMPERVIOUS AREA WILL BE CONVERTED TO PERVIOUS AREA	

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

VEGETATIVE COVER SPECIFICATIONS:

PERMANENT VEGETATIVE COVER (AFTER CONSTRUCTION):

- SITE PREPARATION
 - BRING AREA TO BE SEED TO REQUIRED GRADE. A MINIMUM OF 4" PLACED AND SETTLED DEPTH OF TOPSOIL IS REQUIRED.
 - PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4 INCHES.
 - REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.
 - LIME TO PH OF 6.5.
 - FERTILIZER: USE 5-10-5 (NPK) OR EQUIVALENT. APPLY AT RATE OF 4 LBS/1000 SF.
 - INCORPORATE LIME AND FERTILIZER IN THE TOP 4 INCHES OF TOPSOIL.
 - SMOOTH AND FIRM THE SEEDBED.

LAWN SEED MIX: (APPLY AT RATE OF 5 TO 6 LBS PER 1000 SF)

- FULL SUN: KENTUCKY BLUEGRASS (POA PRATENSIS), A MINIMUM OF THREE CULTIVARS
- SUN AND PARTIAL SHADE: PROPORTIONED BY WEIGHT AS FOLLOWS:
 - 50% KENTUCKY BLUEGRASS (POA PRATENSIS)
 - 30% CHEWINGS RED FESCUE (FESTUCA RUBRA VARIETY)
 - 10% PERENNIAL RYEGRASS (LOLIUM PERENNE)
 - 10% REDTOP (AGROSTIS ALBA)
- SHADE: PROPORTIONED BY WEIGHT AS FOLLOWS:
 - 50% CHEWINGS RED FESCUE (FESTUCA RUBRA VARIETY)
 - 35% ROUGH BLUEGRASS (POA TRIVIALIS)
 - 15% REDTOP (AGROSTIS ALBA)
- SEEDING
 - APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER OR HYDRO-SEEDER AT RATE INDICATED.
 - ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS:
 - A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS /ACRE MIN., TO BE APPLIED ONCE SEEDING IS COMPLETE.
 - WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY HYDROSEEDER AT RATE OF 2,000 LBS/ACRE.
 - ALL SEEDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
 - IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO DISLODGE PLANTING SOIL.
 - UNLESS OTHERWISE DIRECTED IN WRITING, SEED FROM MARCH 15TH TO JUNE 15TH, AND FROM AUGUST 15TH TO OCTOBER 15TH.
- SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
 - UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
 - UNLESS OTHERWISE DIRECTED IN WRITING, PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
- AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE LAWNS OR PLANTINGS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER (TOPSOIL AND TEMPORARY COVER SEED MIX) WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
- EXECUTION:
 - LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
 - TOPSOIL SHALL BE SPREAD NO LESS THAN 4" OVER SUB-GRADE MATERIAL. SOIL AMENDMENTS SHALL BE THOROUGHLY MIXED INTO THE TOP 4" OF TOPSOIL, FOLLOWING THE SPECIFICATIONS STATED BELOW.
 - PERFORM FINE GRADING TO FINISHED ELEVATION ONLY IMMEDIATELY PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
 - FERTILIZING:
 - THE SOIL SHALL BE TESTED FOR PH AND LIME ADDED AS NECESSARY. ALL AMENDMENTS SHALL BE CHECKED AND APPROVED BY LANDSCAPE ARCHITECT BEFORE AMENDMENTS ARE MADE.
 - APPLY FERTILIZER AT RATE OF 4 LBS/1000 SF FOR LAWN AREAS.
 - LAWN (SEED):
 - LAWN SEED MIX: SEED AT THE RATE OF 5 TO 6 LBS PER 1,000 SF.
 - ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS:
 - A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS/ACRE MIN., TO BE APPLIED ONCE SEEDING IS COMPLETE.
 - WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY A HYDROSEEDER AT A RATE OF 2,000 LBS/ACRE.
 - LAWN (SOD):
 - HARVEST, STORE AND HANDLE SOD ACCORDING TO REQUIREMENTS IN "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" AND "SPECIFICATIONS FOR TURFGRASS SOD TRANSPLANTING AND INSTALLATION" IN TPI'S "GUIDELINE SPECIFICATIONS FOR TURFGRASS SODDING." DELIVER SOD IN TIME FOR PLANTING WITHIN 24 HOURS OF HARVESTING. PROTECT SOD FROM BREAKAGE AND DRYING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - ALL SEEDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
- ALL NEWLY PLANTED AREAS SHALL BE KEPT MOIST BY WATERING UNTIL GRASSES AND GROUND COVERS ARE WELL ESTABLISHED. THE LANDSCAPE CONTRACTOR MUST WATER PLANT MATERIAL WHEN NECESSARY FOR 60 DAYS AFTER INSTALLATION.
- LAWNS ARE TO BE WARRANTED UNTIL THEY BECOME ESTABLISHED, UNTIL FINAL ACCEPTANCE, AND NOT LESS THAN 60 DAYS AFTER COMPLETION OF ALL WORK. TREES, SHRUBS, GROUND COVERS, AND PERENNIALS SHALL BE WARRANTED AGAINST DEFECTS INCLUDING POOR GROWTH AND DEATH, EXCEPT WHEN RESULTING FROM OWNER NEGLIGENCE, INCIDENTS THAT ARE BEYOND THE CONTROL OF THE LANDSCAPE INSTALLER AND DAMAGE OR ABUSE BY OTHERS, FOR AT LEAST ONE FULL YEAR AFTER PROJECT COMPLETION.

TOPSOIL SPECIFICATIONS:

- EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STOCKPILES SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.
- ALL TOPSOIL REQUIRED FOR SITE RESTORATION WHALL BE SCREENED TO MEET MINIMUM SIEVE REQUIREMENTS FOR NEW TOPSOIL NOTED BELOW AND BE FREE OF ROOTS AND OTHER DEBRIS.

SITE PREPARATION:

- COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.
- SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%.
- REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 1 INCH IN DIAMETER, AND OTHER LITTER.

TOPSOIL MATERIALS:

- NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:
 - ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.
 - CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.
 - CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
 - CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION	% PASSING
1"	100
1/4"	97-100
NO 200	20-60

APPLICATION AND GRADING:

- TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" PLACED AND SETTLED DEPTH OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER.
- TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEED, MULCHED AND STABILIZED BY ANCHORED STABILIZATION MATTING (SEE DETAIL 5/C-520.2).

GENERAL LANDSCAPING NOTES:

- THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
- THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
- THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
- THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.
- NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
- QUALITY ASSURANCE:
 - NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
 - SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, INC (AAN), UNLESS OTHERWISE SPECIFIED.
 - NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, VIGOROUS PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HEELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
 - SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
- SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
 - UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
 - UNLESS OTHERWISE DIRECTED IN WRITING, PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
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SEAL:



ESYO MacArthur Renovation - Phase 2

45 MacArthur Drive, Schenectady, NY

SITE PLAN REVIEW
NOT FOR CONSTRUCTION

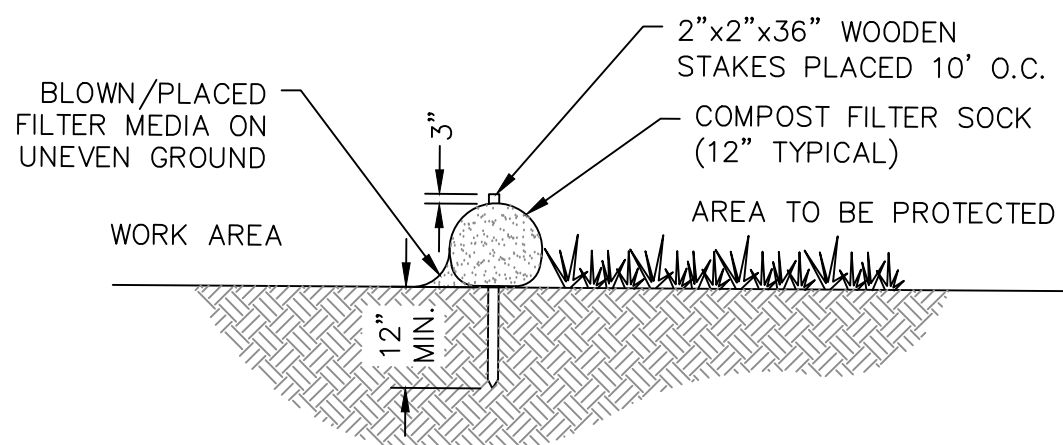
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It is a violation of the law for any person, unless acting under the direction of a licensed architect, to alter this document in any way.

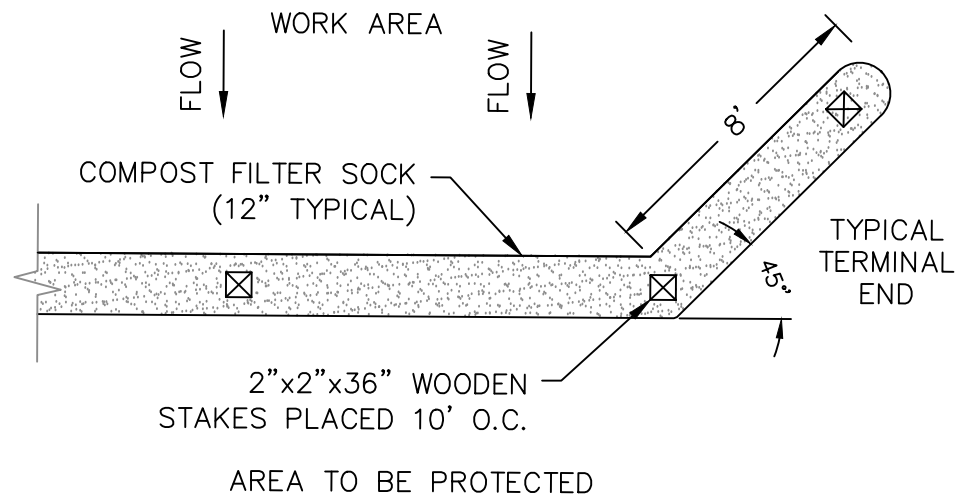
LANDCAPING DETAILS

C-515.2

SITE PLAN REVIEW SCALE: AS INDICATED
ALB-2200103.02 03/20/2023



SECTION



PLAN

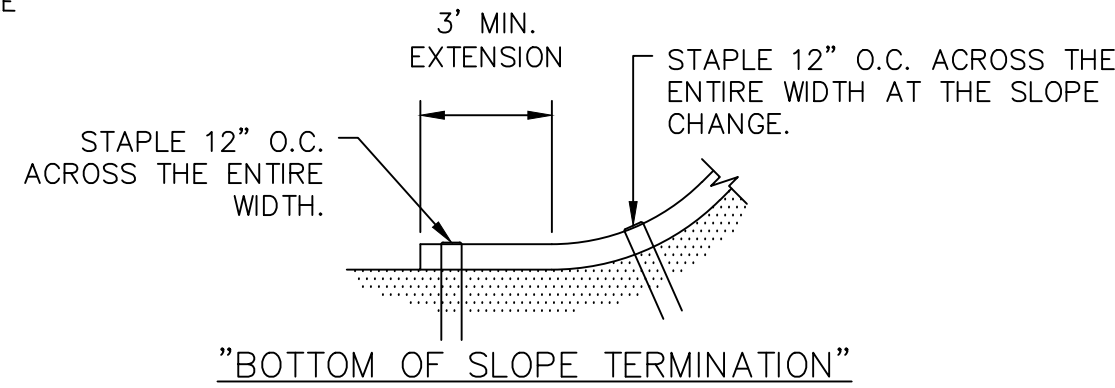
NOTES:

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

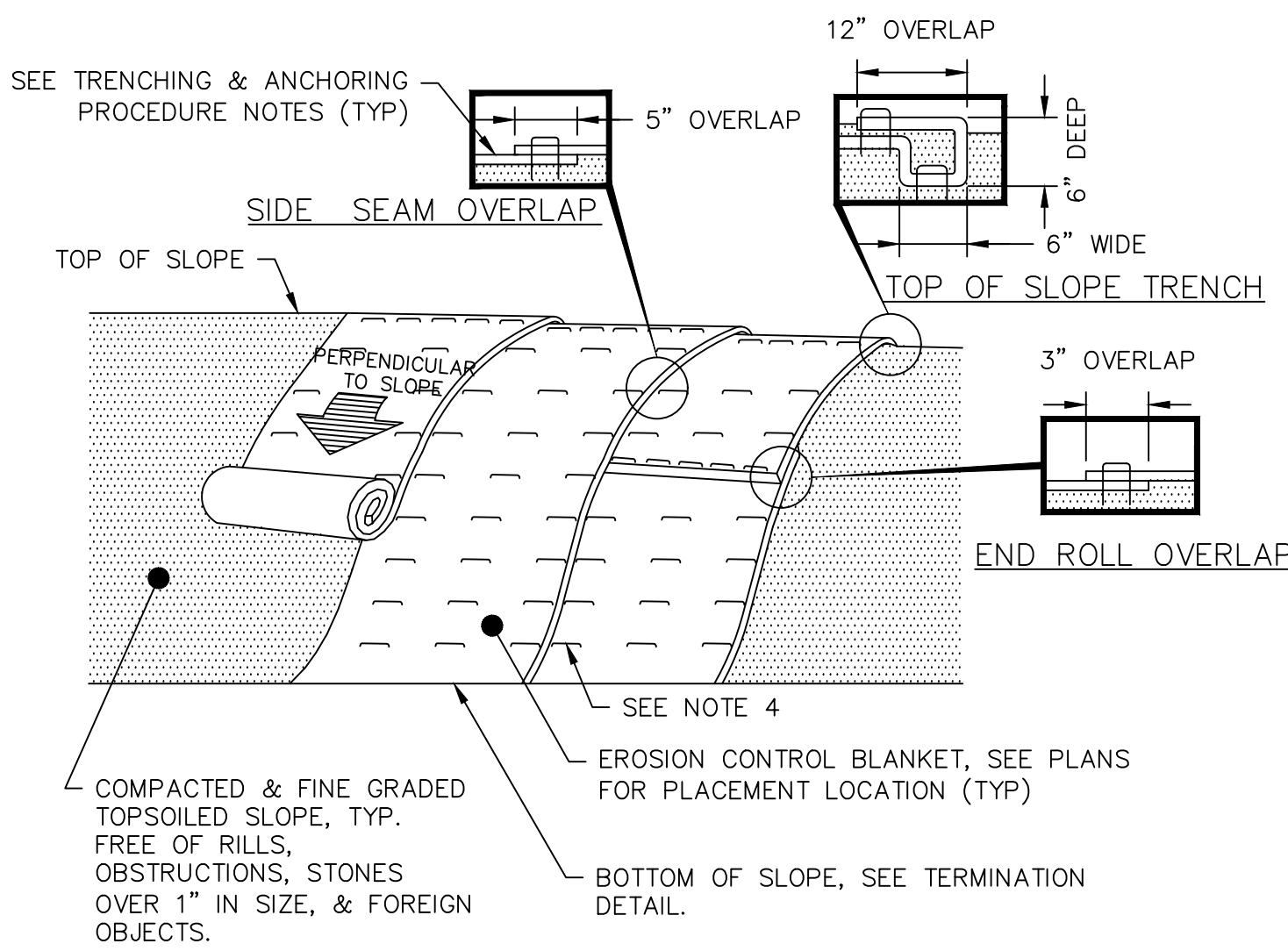
% SLOPE	MAXIMUM SLOPE LENGTH(FT)
2	250
5	225
10	125
20	65
25	50
33	40
50	25

COMPOST FILTER SOCK INSTALLATION

1
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SCALE:NOT TO SCALE



"BOTTOM OF SLOPE TERMINATION"



NOTES:

- PREPARE THE TOPSOIL (SEEDBED) FIRST BY RAKING, SHAPING, FINE GRADING, COMPACTING, SEEDING & FERTILIZING THE SLOPES.
- USE THE TRENCHING & ANCHORING PROCEDURES DETAILED HEREIN TO SECURE ANY EXPOSED MATERIAL ENDS. SECURE ALL PRODUCT OVERLAPS. OVERLAP IN THE DIRECTION OF WATER FLOW, PERPENDICULAR TO THE SLOPE.
- KEEP EROSION CONTROL BLANKET IN SOLID CONTACT WITH THE TOPSOIL.
- USE THE REQUIRED NUMBER OF STAPLES/STAKES TO SECURELY FASTEN THE EROSION CONTROL BLANKET TO THE SLOPE. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES/STAKES LENGTHS GREATER THAN 6" MAYBE NECESSARY FOR PROPER SECURING. STAPLE PATTERNS & OVERLAPS ARE DEPENDENT ON SITE CONDITIONS & MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL CONSULT WITH MANUFACTURER FOR ACTUAL SITE SPECIFIC REQUIREMENTS.

TRENCHING & ANCHORING PROCEDURE NOTES:

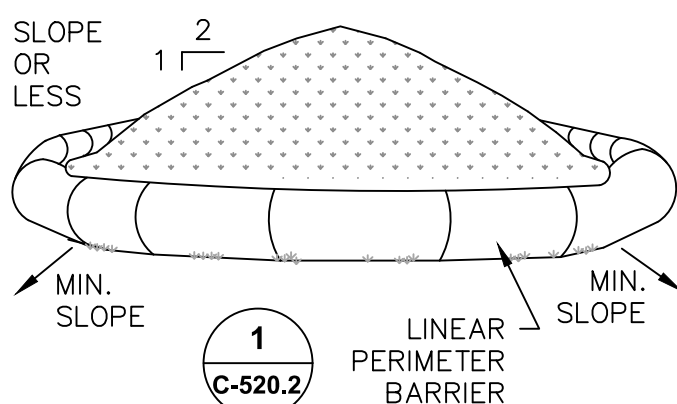
SIDE SEAM OVERLAP: THE EDGES OF PARALLEL BLANKETS SHALL BE STAPLED WITH A 5" OVERLAP.

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

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

5 ANCHORED STABILIZATION MATTING

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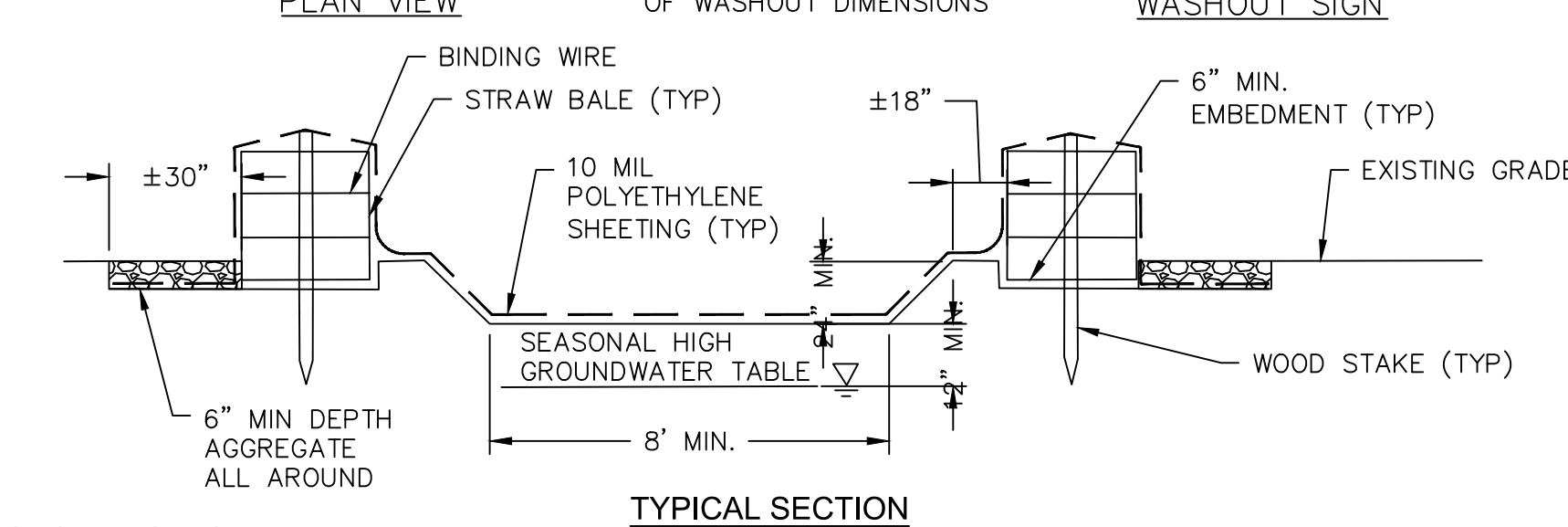
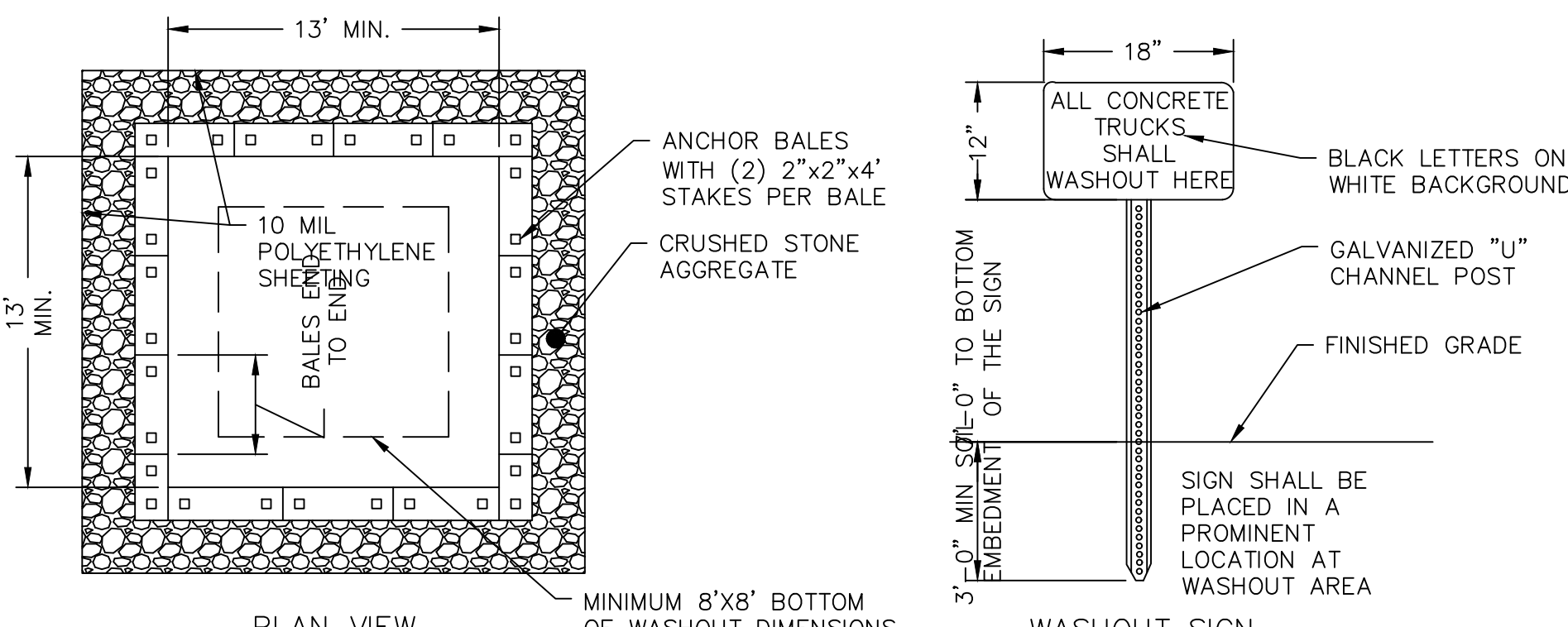


NOTES:

- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
- UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH A LINEAR PERIMETER BARRIER, THEN STABILIZED WITH VEGETATION OR COVERED.
- SEE SPECIFICATIONS FOR INSTALLATION OF LINEAR BARRIER.

3 TEMPORARY SOIL STOCKPILE

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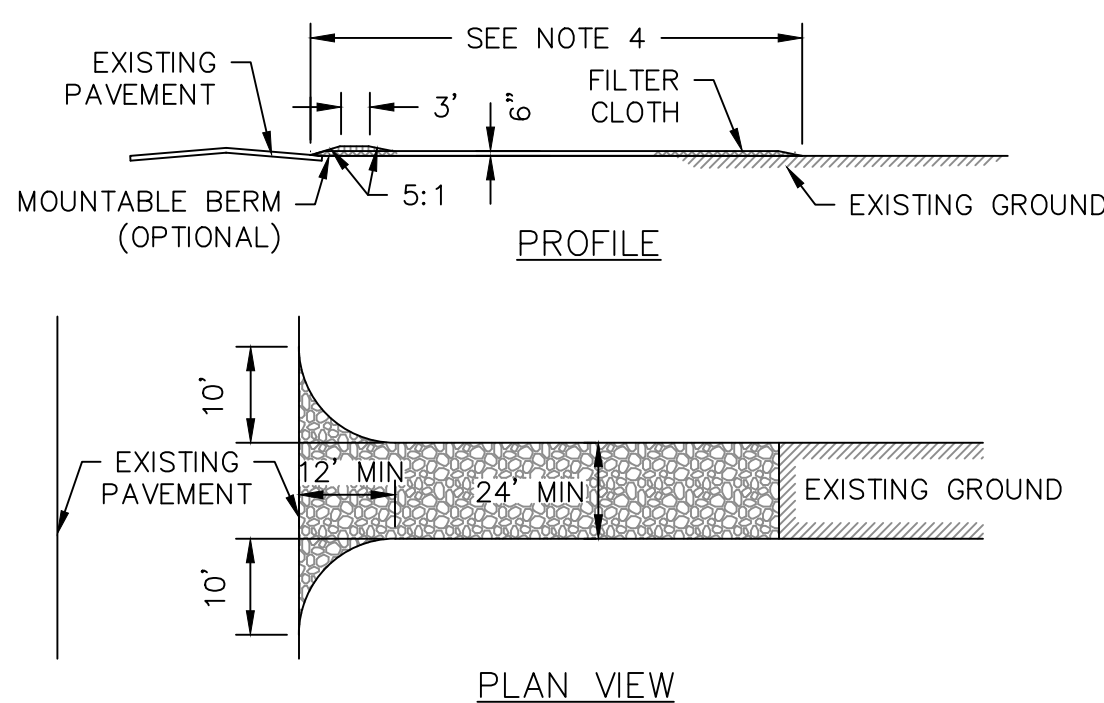


WASHOUT NOTES:

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

6 TEMPORARY CONCRETE WASHOUT STRUCTURE

C-520.2
SCALE:NOT TO SCALE



CONSTRUCTION ENTRANCE SPECIFICATIONS:

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY FOUR FEET (24) FOOT IF SINGLE ENTRANCE TO SITE.
- LENGTH - NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

7 STABILIZED CONSTRUCTION ENTRANCE

C-520.2
SCALE:NOT TO SCALE

EROSION AND SEDIMENT CONTROL MEASURES:

GENERAL MEASURES:

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

PARTICULAR MEASURES:

- STABILIZED CONSTRUCTION ENTRANCE:** UTILIZED DURING CONSTRUCTION, SHALL BE MAINTAINED IN A CONDITION THAT SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
- SOIL STOCKPILES:** SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL STOCKPILES OF FILL, TOPSOIL, AND EXCAVATED OVERBURDEN THAT ARE TO REMAIN EXPOSED FOR PERIODS LESS THAN 21 DAYS. SEDIMENT BARRIERS SHALL BE ANCHORED AND MAINTAINED IN GOOD CONDITION UNTIL SUCH TIME AS SAID STOCKPILES ARE REMOVED AND STOCKPILING AREAS ARE BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED. TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 21 DAYS SHALL BE STABILIZED BY SEEDING. PRIOR TO THE SEEDING OPERATION, THE STOCKPILED MATERIAL SHALL BE GRADED AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM, OR OTHER SURFACE WATER BODY.
- STONE OUTLET SEDIMENT TRAP:** A STONE OUTLET SEDIMENT TRAP CONSISTS OF A TRAP FORMED BY EMBANKMENT OR EXCAVATION. THE OUTLET OF THIS TRAP IS OVER A STONE SECTION PLACED ON LEVEL GROUND. THE OUTLET CREST SHALL BE LEVEL, AT LEAST ONE FOOT BELOW THE TOP OF EMBANKMENT AND NO MORE THAN ONE FOOT ABOVE THE GROUND BENEATH THE OUTLET. STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP, TO PROVIDE MORE EFFICIENT TRAPPING EFFECT, A LAYER OF FILTER CLOTH SHOULD BE EMBEDDED ONE FOOT BACK INTO THE UPSTREAM FACE OF THE OUTLET STONE OR A ONE FOOT THICK LAYER OF TWO INCH OR FINER AGGREGATED SHALL BE PLACED ON THE UPSTREAM FACE OF THE OUTLET.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

PERMANENT AND TEMPORARY VEGETATION:

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

STABILIZED CONSTRUCTION ENTRANCE:

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

SEDIMENT BARRIER:

INSPECT FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

SOIL STOCKPILE:

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

DUST CONTROL:

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

CHECK DAM:

INSPECT CHECK DAMS EVERY SEVEN DAYS. IF SIGNIFICANT EROSION HAS OCCURRED BETWEEN STRUCTURES A LINER OF STONE OR OTHER SUITABLE MATERIAL SHOULD BE INSTALLED IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAM AS NEEDED TO ALLOW CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER APPROVAL OF TOWN ENGINEER AND PROJECT ENGINEER.

EROSION CONTROL BLANKET:

INSPECT THE BLANKET EVERY SEVEN DAYS. REPLACE WIRE STAPLES AS REQUIRED. REPAIR AND RESEED WHERE CRACKS AND DAMAGED VEGETATION IS EVIDENT. WHEN DAMAGED BEYOND REPAIR OR NO LONGER FUNCTIONING, THE BLANKET SHALL BE REPLACED.

SNOW AND ICE CONTROL:

PARKING LOTS, ROADWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE CONTROL.

SEDIMENT TRAPS:

SEDIMENT TRAPS SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA ON SITE AND STABILIZED. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

CONSTRUCTION DITCH:

CONSTRUCTION DITCHES SHALL BE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA ON SITE AND STABILIZED. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS MADE AS NEEDED.

EROSION & SEDIMENT INSPECTION & MAINTENANCE SCHEDULE					
STRUCTURE	DAILY	WEEKLY	AFTER RAINFALL	NECESSARY TO MAINTAIN FUNCTION	AFTER COMPLETION OF CONSTRUCTION
SEDIMENT BARRIER	--	INSPECT	INSPECT	CLEAN/REPLACE	REMOVE
DUST CONTROL	INSPECT	--	INSPECT	MULCHING/SPRAYING WATER	N/A
VEGETATIVE ESTABLISHMENT	--	INSPECT	INSPECT	WATERING/RE-SEEDING/RE-MULCHING	PERMANENT
INLET PROTECTION	--	INSPECT	INSPECT	CLEAN/REPAIR/REPLACE	REMOVE
STABILIZED CONSTRUCTION ENTRANCE	--	INSPECT	INSPECT	CLEAN/REPLACE STONE & FABRIC	REMOVE
CONSTRUCTION DITCH	--	INSPECT	INSPECT	CLEAN/REPAIR/REPLACE	REMOVE
SEDIMENT TRAP	--	INSPECT	INSPECT	CLEAN/REPAIR/REPLACE	REMOVE



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SEAL:



ESYO MacArthur Renovation - Phase 2

45 MacArthur Drive, Schenectady, NY



No.	Description	Date

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E&S&C DETAILS

C-520.2

SITE PLAN REVIEW
ALB-2200103.02

SCALE: AS INDICATED
03/20/2023