

TOWN OF BOXFORD

BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT HARRY LEE COLE SCHOOL

ZONING

SCHOOL: HARRY LEE COLE SCHOOL
 SITE ADDRESS: 26 and 28 MIDDLETON ROAD
 PARCEL MAP/LOT: 32-1-21
 ZONING DISTRICT: O - OFFICIAL OR OPEN SPACE DISTRICT
 OVERLY DISTRICT: NONE

Description	Required	Proposed
Minimum Lot Dimensions		
Area (Acres)	N/A	N/A
Frontage on street	N/A	N/A
Minimum Required Yard Dimensions/Setbacks		
Front Yard (1)	50	N/A
Side Yard	N/A	N/A
Rear Yard	N/A	N/A
Max. Bldg. Height		
Stories	3	N/A
Feet	35	N/A
Coverage (2)		
Building Coverage % of lot area	25%	N/A
Accessory Buildings or Structures		
Min. Bldg. Separation	20	N/A
Side/rear setbacks	20	N/A

WAIVER REQUESTS

- 196-29. NEW DRIVEWAYS**
B(2). DRIVEWAYS: The first 25 feet in from the paved portion of the public way shall have a max slope of 3%; the max driveway slope along the centerline shall be 12%; any slopes over 8% shall be paved. To preserve the stability of the existing natural topography, no cut or fill in excess of 8 feet of the natural topography shall be allowed within the limits of the driveway cross section.

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- RENDERING FOR ILLUSTRATIVE PURPOSES ONLY -

FOR PERMITTING - NOT FOR CONSTRUCTION

MAY 6, 2022

REVISED NOVEMBER 9, 2022

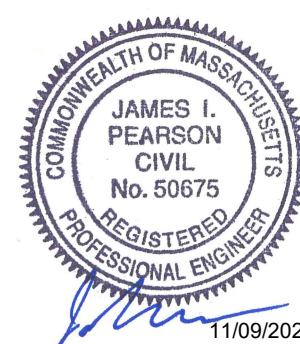
LANDSCAPE ARCHITECTURAL, CIVIL,
 ENVIRONMENTAL, ELECTRICAL AND
 UTILITY DESIGN:
 55 Walkers Brook Drive, Suite 100
 Reading, MA 01867
 (978) 532 1900
 www.westonandsampson.com



STEVE CLIFFORD, DIRECTOR OF FACILITIES
 BOXFORD PUBLIC SCHOOLS
 28 MIDDLETON ROAD
 BOXFORD, MA 01921
 978-887-0771 ext. 225



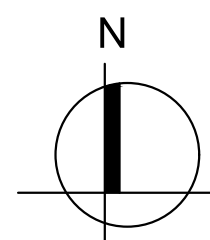
JAMES PEARSON, PE, TECHNICAL SPECIALIST
 55 WALKERS BROOK DRIVE
 READING, MA 01867
 978-532-1900



Locus Map



HARRY LEE COLE SCHOOL
 26 MIDDLETON ROAD, BOXFORD, MA 01921



GENERAL NOTES

- TOPOGRAPHIC AND EXISTING CONDITIONS INFORMATION COMPILED BY WESTON & SAMPSON, OCTOBER 2020.
- REFER TO EXISTING CONDITIONS LEGEND. ANY QUANTITIES SHOWN ON THE PLANS ARE FOR BIDDING PURPOSES ONLY. ALL BIDDERS ARE REQUIRED TO INSPECT THE PROJECT SITE IN ITS ENTIRETY PRIOR TO SUBMITTING THEIR BID, AND BECOME FAMILIAR WITH ALL CONDITIONS AS THEY MAY AFFECT THEIR BID. CONTRACTOR AND SUB-CONTRACTOR SHALL BE FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING THE CONSTRUCTION.
- LOCATIONS OF ANY UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES, PROTECTING ALL EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE COORDINATION WITH UTILITY COMPANIES AND PUBLIC AGENCIES AND FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL REQUIRED FEES. IN ACCORDANCE WITH M.G.L. CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING PRIOR TO EXCAVATION. CONTRACTOR SHALL ALSO CALL "DIG SAFE" AT (888) 344-7233 NO LESS THAN 72 HOURS (EXCLUSIVE OF WEEKENDS AND HOLIDAYS), PRIOR TO SUCH EXCAVATION. DOCUMENTATION OF REQUESTS SHALL BE PROVIDED TO PROJECT REPRESENTATIVE PRIOR TO EXCAVATION WORK.
- ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, EXISTING CONDITIONS TO REMAIN, TEMPORARY CONSTRUCTION, PERMANENT CONSTRUCTION AND WORK OF ADJACENT CONTRACTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING. ITEMS ENCOUNTERED IN AREAS OF EXCAVATION THAT ARE NOT INDICATED ON THE DRAWINGS, BUT ARE VISIBLE ON SURFACE, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.
- ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS OUTSIDE THE PROJECT LIMITS, SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NEEDED TO PROTECT HIS EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD AT NO EXPENSE TO THE OWNER USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, THE ERECTION OF TEMPORARY WALKS, STRUCTURES, PROTECTIVE BARRIERS, COVERING, OR FENCES AS NEEDED.
- THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
- FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER'S REPRESENTATIVE.
- ALL EXISTING DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS, SOIL, SEDIMENT, AND FOREIGN MATERIAL AND OPERATIONAL THROUGHOUT THE LIFE OF THE CONTRACT. REMOVE ALL SOIL, SEDIMENT, DEBRIS AND FOREIGN MATERIAL FROM ALL DRAINAGE STRUCTURES.
- CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE AND/OR IN AREAS APPROVED BY OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR SHALL KEEP ALL STREETS AND WALKS THAT ARE NOT RESTRICTED FROM PUBLIC USE DURING CONSTRUCTION BROOM CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE ACCEPTABLE METHODS AND MATERIALS TO MAINTAIN ADEQUATE DUST CONTROL THROUGHOUT CONSTRUCTION.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH TOWN OF BOXFORD ORDINANCES.

EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT INTO PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION, INCLUDING BUT NOT LIMITED TO, DRAINAGE INLETS, MANHOLES AND CATCH BASINS WITHIN THE LIMIT OF WORK AND DRAINAGE STRUCTURES OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE WORK FOR THE ENTIRE DURATION OF CONSTRUCTION. REFER TO SPECIFICATIONS AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL MEET ALL OF THE STATE OF MASSACHUSETTS D.E.P. REGULATIONS FOR SEDIMENT AND EROSION CONTROL AT NO ADDITIONAL COST TO THE OWNER.
- EXCAVATED MATERIAL STOCKPILED ON THE SITE SHALL BE SURROUNDED BY A RING OF UNBROKEN SEDIMENT AND EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONTRACT SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
- EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE SITE PLAN, NOTES, DETAILS AND SPECIFICATIONS.

DEMOLITION & SITE PREPARATION NOTES

- THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
- THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS.
- UNLESS SPECIFICALLY NOTED TO BE REMOVED AND STOCKPILED (R&S) OR REUSED AND RELOCATED (R&R), ALL SITE FEATURES CALLED TO BE REMOVED AND DEMOLISHED (RD) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC. TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
- DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
- IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER'S REPRESENTATIVE, TO REUSE EXISTING GRAVEL PAVEMENT BASE COURSE IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR GRAVEL BORROW.

LAYOUT & MATERIALS NOTES

- COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY DEMOLITION, MATERIALS, GRADING AND UTILITIES OPERATIONS ENCOMPASSED BY THIS CONTRACT. SET, PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
- THE LAYOUT OF SITE AMENITIES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION. ANY REQUIRED ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER.
- ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES AND SHALL BE TREATED WITH AN RS-1 TACK COAT AT POINT OF CONNECTION. ALL PATHWAY WIDTHS SHALL BE AS NOTED ON THE LAYOUT AND MATERIALS PLAN.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS OF ALL PROPOSED GATES.
- ALL LAYOUT LINES, OFFSETS, OR REFERENCES TO LOCATING OBJECTS ARE EITHER PARALLEL OR PERPENDICULAR UNLESS OTHERWISE DESIGNATED WITH ANGLE OFFSETS NOTED.
- REFER TO DETAIL DRAWINGS FOR CONSTRUCTION DETAILS.
- ONLY CLEAN FILL SHALL BE USED. CLEAN FILL SHALL BE CLEAR FROM TRASH, DEBRIS, ASPHALT, BRICK, CONCRETE, METAL, WOOD, RECYCLED CONSTRUCTION MATERIALS, OR OTHER DELETERIOUS MATERIALS.
- TO FACILITATE LAYOUT OF PROPOSED SITE FEATURES AND FACILITIES, LAYOUT INFORMATION FOR CERTAIN FUTURE WORK, WHICH IS NOT INCLUDED WITHIN THE SCOPE OF THIS CONTRACT HAS BEEN PROVIDED ON THE LAYOUT AND MATERIALS PLAN FOR INFORMATION ONLY.

GRADING & DRAINAGE NOTES

- ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF WATER, UTILITY STORMWATER DRAINAGE AND/OR SEPTIC UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE TOWN, AND STATE OF MASSACHUSETTS.
- THE CONTRACTOR SHALL VERIFY ALL GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- ALL GRADING IS TO BE SMOOTH AND CONTINUOUS WHERE PROPOSED SURFACE MEETS EXISTING SURFACE. BLEND THE TWO PAVEMENTS AND ELIMINATE ROUGH SPOTS AND ABRUPT GRADE CHANGES AND MEET LINE AND GRADE OF EXISTING CONDITIONS WITH NEW IMPROVEMENTS.
- CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCH TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
- ALL NEW WALKWAYS MUST CONFORM TO CURRENT AMERICANS WITH DISABILITIES ACT (ADA), AND MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) REGULATIONS. WALKWAYS SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF (1.5%) PERCENT AND THE RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL) BETWEEN 1% MIN. AND 4.5% MAX. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
- ALL UTILITY GRATES, COVERS OR OTHER SURFACE ELEMENTS INTENDED TO BE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL EDGES.
- THE CONTRACTOR SHALL CONFIRM AND/OR SET SUBGRADE ELEVATIONS TO ALLOW FOR POSITIVE DRAINAGE AND PROVIDE EROSION CONTROL DEVICES, STRUCTURES, MATERIALS AND CONSTRUCTION METHODS TO DIRECT SILT MIGRATION AWAY FROM DRAINAGE AND OTHER UTILITY SYSTEMS, PUBLIC/Private STREETS AND WORK AREAS. CLEAN BASINS REGULARLY AND AT THE END OF THE PROJECT.
- EXCAVATION REQUIRED WITHIN PROXIMITY OF KNOWN EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.
- WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.
- WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
- RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED (L&S) UNLESS OTHERWISE NOTED.
- SEE EARTHWORK SECTION OF SPECIFICATIONS FOR EXCAVATION AND FILLING PROCEDURES.

PLANTING NOTES

- THE DEPTH OF THE TOPSOIL LOAM FOR ALL PROPOSED LAWN AREAS SHALL BE 6" MINIMUM. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOAM AND SEED UNLESS OTHERWISE NOTED.
- ALL REFERENCES TO LOAM AND SEED REFER TO HYDROMULCH SEEDED LAWN.
- ANY DISCREPANCIES BETWEEN THE PLANS AND THE PLANTING SCHEDULE, CONTRACTOR SHALL OWN THE LARGER QUANTITY AND SIZE AT NO ADDITIONAL COST TO THE OWNER.

ABBREVIATIONS

GENERAL

PROP	PROPOSED
ADJ	ADJUST
BIT. CONC.	BITUMINOUS CONCRETE
CEM. CONC.	CEMENT CONCRETE
B	BASILINE
N.T.S.	NOT TO SCALE
B.M.	BENCH MARK
ABAN	ABANDON
GRAN. CURB	GRANITE CURB
EXIST. (OR EX.)	EXISTING
FDN	FOUNDATION
F.L. (OR F)	FLOW LINE
P	PROPERTY LINE
PVMT	PAVEMENT
RC	REINFORCED CONCRETE
REM	REMOVE
RET	RETAIN
R.O.W.	RIGHT-OF-WAY
R&R	REMOVE AND RELOCATE
R,R&R	REMOVE, RELOCATED AND RESET
R&S	REMOVE AND SALVAGE
RD	REMOVE AND DISPOSE
P&P	PRESERVE AND PROTECT
SB	STONE BOUND
NIC	NOT IN CONTRACT
H.C.	HANDICAP
WCR	WHEELCHAIR RAMP
HMA	HOT MIX ASPHALT
G.C.	GENERAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR

UTILITIES

GICI	GUTTER INLET W/ CURB INLET
CBCI	CATCH BASIN W/ CURB INLET
CB	CATCH BASIN
C.I.T.	CHANGE IN TYPE
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
CI	CURB INLET
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
DI	DUCTILE IRON PIPE
GI	GUTTER INLET
HYD	HYDRANT
INV.	INVERT ELEVATION
UP	UTILITY POLE
SMH	SEWER MANHOLE
WG	WATER GATE
DS	DOWN SPOUT
HDPE	HIGH DENSITY POLYETHYLENE PIPE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
DMH	DRAIN MANHOLE
LB	LEACHING BASIN
CI	CAST IRON
OCS	OUTLET CONTROL STRUCTURE
OGT	OIL AND GRIT TRAP
VC	VITRIFIED CLAY PIPE
LP	LIGHT POLE
SWTU	STORM WATER TREATMENT UNIT
HH	HANDHOLE

ALIGNMENT/GRADING

BW	BOTTOM OF WALL
BC	BOTTOM OF CURB
PI	POINT OF INTERSECTION
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVC	POINT OF VERTICAL CURVATURE
PVT	POINT OF VERTICAL TANGENCY
ELEV	ELEVATION
CC	CENTER OF CURVE
H.P.	HIGH POINT
L.P.	LOW POINT
R	RADIUS OF CURVATURE
STA	STATION
S.S.D.	STOPPING SIGHT DISTANCE
TC	TOP OF CURB
TW	TOP OF WALL
CL	CENTER LINE

Project:
BOXFORD PUBLIC
SCHOOLS SITE
RENOVATION PROJECT



HARRY LEE COLE SCHOOL
26 AND 28 MIDDLETON ROAD
BOXFORD, MA 01921



Weston & Sampson Engineers, Inc.
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM



Issued For:

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Scale: AS SHOWN

Date: MAY 6, 2022

Drawn By: EJA

Reviewed By: CB

Approved By: JIP

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Drawing Title:

LEGGEND,
GENERAL NOTES
& SYMBOLS

Sheet Number:

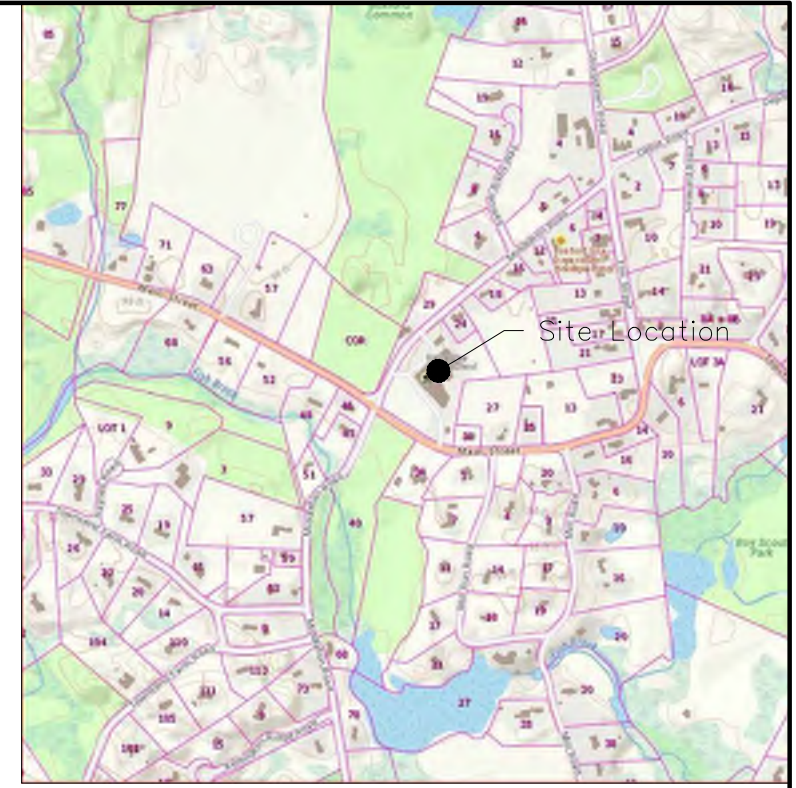
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Match Line
(See Sheet 2)

LANDS N/F
TOWN OF BOXFORD
28 MIDDLETON ROAD
AREA = 346226.28
SQ.FT. (7.948 ACRES)

LANDS N/F
RUSSELL GORDON
27 MAIN STREET
BK 35595 PG 291



LOCATION MAP
NOT TO SCALE

SURVEY NOTES:

1. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON EVIDENCE VISIBLE AT GROUND SURFACE AND RECORD DRAWINGS AND SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED OR ADJACENT TO THE SURVEYED PREMISES.
2. SURVEY PERFORMED BY WESTON & SAMPSON ENGINEERS IN OCTOBER 2020.
3. CONTOURS AND ELEVATIONS SHOWN BASED ON GPS OBSERVATIONS NAVD88 VERTICAL DATUM.
4. NORTH ORIENTATION IS BASED ON GPS OBSERVATIONS TAKEN AT THE FIELD SURVEY. MAPPING PREPARED ON NAD83 STATE PLANE COORDINATE SYSTEM MASSACHUSETTS MAINLAND.
5. STREETLINE ALONG MIDDLETON ROAD, AS DEPICTED HEREON, IS FROM MAP REFERENCE 1. NO RECORD LAYOUT FOR MIDDLETON ROAD WAS ON FILE.

LANDS N/F
RUSSELL GORDON
31 MAIN STREET
BK 35595 PG 293

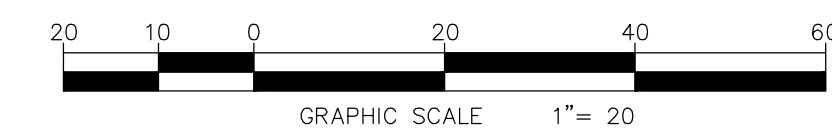
Benchmark "B"
Mag Nail in
12" Tree
Elev. = 93.13'

MAP REFERENCES:

1. MAP ENTITLED "PLAN OF LAND LOCATED IN BOXFORD, MASS., SCALE 1"=40", PREPARED BY DANA F. PERKINS AND SONS, RECORDED ON APRIL 6, 1953 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 1953 PLAN 224.
2. MAP ENTITLED "PLAN OF LAND FOR GORDON A. RUSSELL, BOXFORD, MASS.", SCALE 1"=40", PREPARED BY ROBERT B. PARKHURST, RECORDED ON SEPTEMBER 11, 1963 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 1963 PLAN 671.
3. MAP ENTITLED "PLAN OF LAND IN BOXFORD, PREPARED FOR BESSIE M. CARR, ARLINGTON, MASS.", SCALE 1"=100", PREPARED BY ROBERT B. PARKHURST, RECORDED ON JANUARY 21, 1965 IN ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 5240 PLAN 209.
4. MAP ENTITLED "PLAN OF LAND IN BOXFORD PREPARED FOR WINTHROP P. HAYNES ET. AL., BOXFORD MASS.", SCALE 1"=100, PREPARED BY ROBERT B. PARKHURST, RECORDED ON SEPTEMBER 18, 1974 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 131 PLAN 91.
5. MAP ENTITLED "DEFINITIVE SUBDIVISION PLAN OF LAND IN BOXFORD, MASS. PREPARED FOR MOTNERAK LIMITED PARTNERSHIP SHOWING CARR WAY AND LOT #1", PREPARED BY THOMAS E. NEVE ASSOCIATES, INC. RECORDED ON NOVEMBER 18, 1994 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 294 PLAN 67.

EXISTING CONDITIONS LEGEND

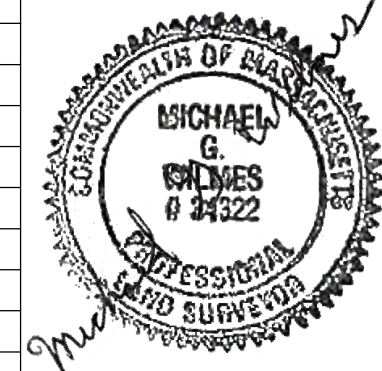
- | | | | |
|---|---|---|---|
| <ul style="list-style-type: none"> EDGE OF WOODS DECIDUOUS TREE CONIFEROUS TREE SHRUB/BUSH SIGN UTILITY POLE LIGHT POLE HYDRANT WATER SHUTOFF MONUMENT IRON PIN / IRON ROD HANDICAP SPACE | <ul style="list-style-type: none"> ST - STORM SEWER LINE S - SANITARY SEWER LINE W - WATER LINE G - GAS LINE SIG - SIGNAL WIRE LINE C - CABLE LINE FO - FIBER OPTIC LINE LPS - LOW PRESSURE SEWER LINE E - ELECTRIC LINE OHU - OVERHEAD UTILITIES T - TELEPHONE LINE SMH - SANITARY MANHOLE (SMH) DMH - DRAINAGE MANHOLE (DMH) CB - CATCHBASIN (CB) Metal Post/Bollard (BOL) | <ul style="list-style-type: none"> HH - HAND HOLE ELEC. METER GAS METER PROPERTY LINE EASEMENT MAJOR CONTOUR LINE MINOR CONTOUR LINE WOOD FRAMED CHAIN LINK FENCE WOOD FENCE FENCE CLEANOUT MONITORING WELL STONEWALL | <ul style="list-style-type: none"> EMHE - ELECTRIC MANHOLE (MHE) UNKNOWN MANHOLE TELEPHONE MANHOLE (MHT) VENT PIPE COULD NOT OPEN FLOW DIRECTION MAG NAIL WLF #F081 WLF-TR WETLAND FLAG (DELINEATED BY OTHERS) EDGE OF WATER (BY AERIAL IMAGE) ELECTRIC PEDESTAL GUY WIRE FINISHED FLOOR ELEVATION SPOT ELEVATION MAILBOX |
|---|---|---|---|



I CERTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

Michael G. Wilmes 11/11/20
Michael G. Wilmes, L.S. 34322 Date

REVISIONS	
DATE	DESCRIPTION

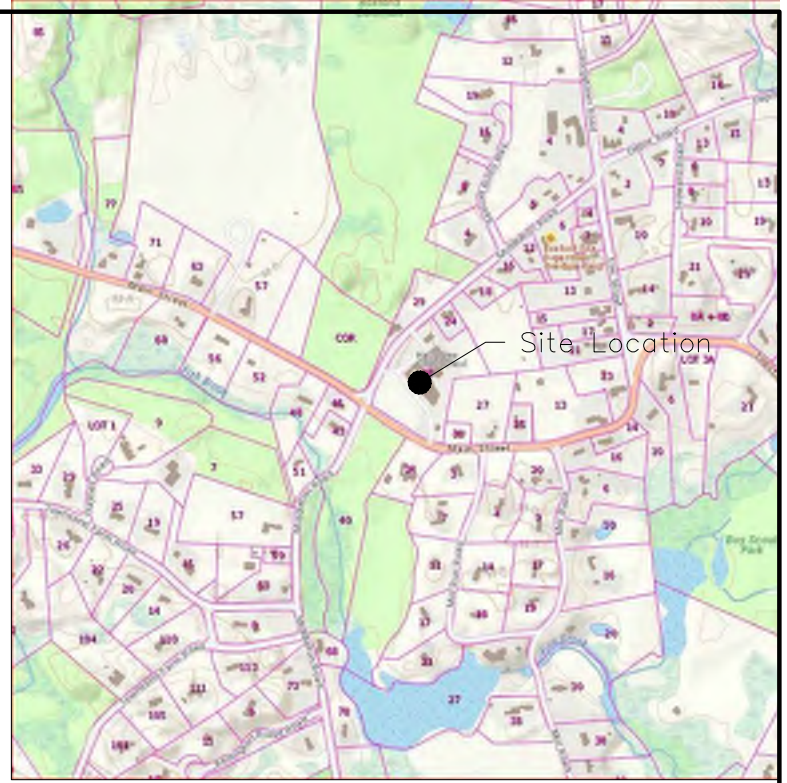


BOUNDARY AND TOPOGRAPHIC MAP OF
LANDS OF TOWN OF BOXFORD
HARRY LEE COLE SCHOOL
TOWN OF BOXFORD

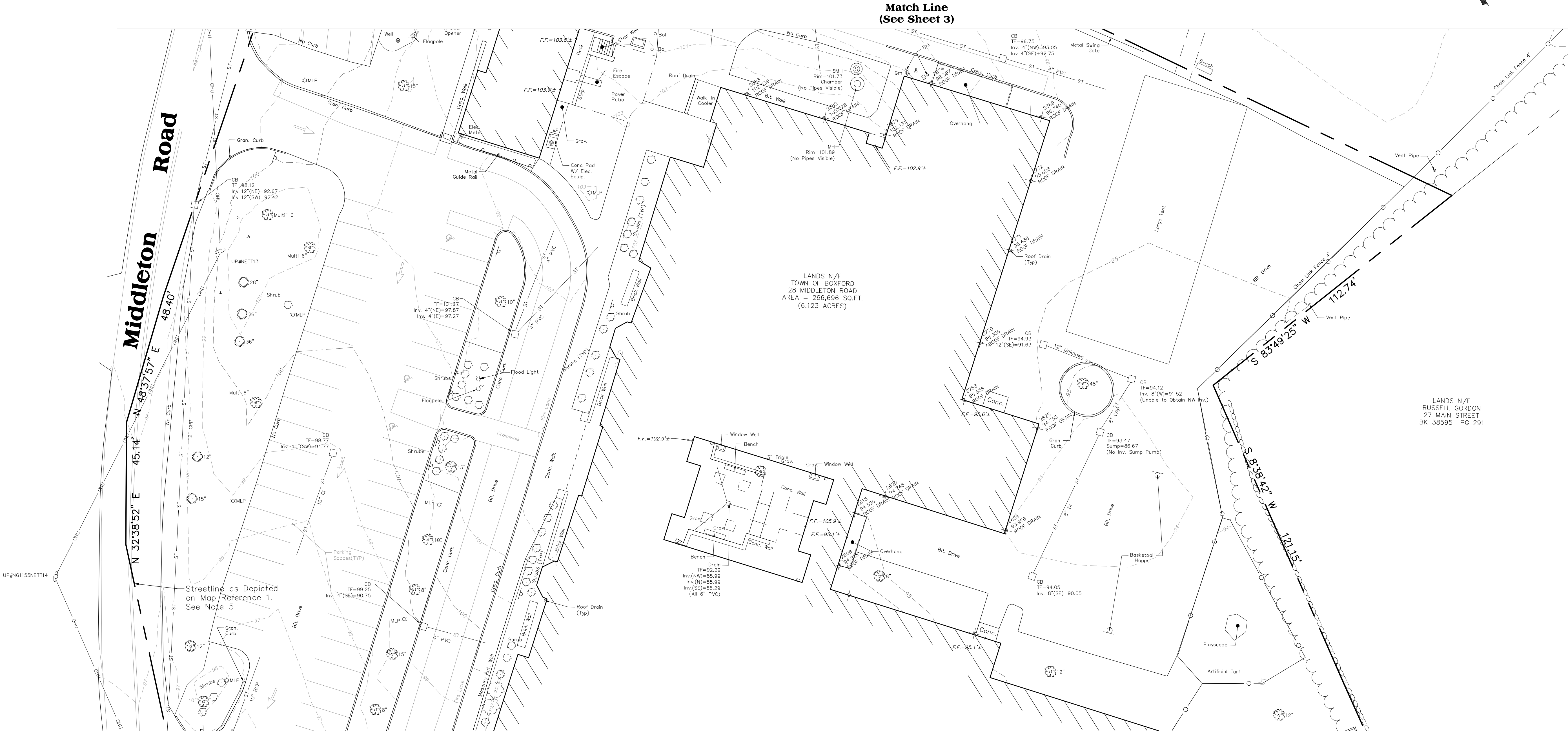
COUNTY OF ESSEX COMMONWEALTH OF MASSACHUSETTS

Weston & Sampson
55 Walkers Brook Drive, Suite 100 Reading, MA 01867

CAD FILE:
ENG20-0870 Harry Lee Cole
DATE: 11, 2020 SHEET 1 OF 3
SCALE: 1"=20' DRAWING No. C 002

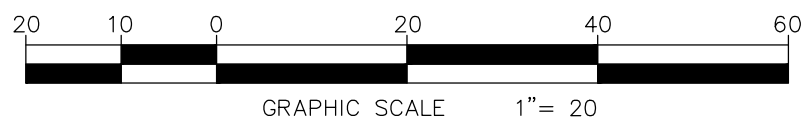


LOCATION MAP
NOT TO SCALE

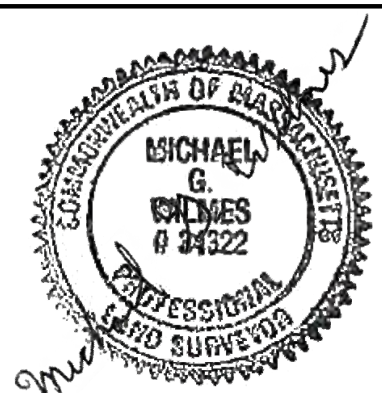


EXISTING CONDITIONS LEGEND

	ST STORM SEWER LINE		⊕ ELECTRIC MANHOLE (MHE)
	S SANITARY SEWER LINE		⊙ UNKNOWN MANHOLE
	W WATER LINE		⊙ TELEPHONE MANHOLE (MHT)
	G GAS LINE		⊙ VENT PIPE
	SIG SIGNAL WIRE LINE		⊙ COULD NOT OPEN
	C CABLE LINE		⊙ FLOW DIRECTION
	FO FIBER OPTIC LINE		⊙ MAGNETIC CONCRETE NAIL
	LPS LOW PRESSURE SEWER LINE		⊙ WETLAND FLAG (DELINEATED BY OTHERS)
	E ELECTRIC LINE		⊙ WETLAND LINE
	OHU OVERHEAD UTILITIES		⊙ EDGE OF WATER (BY AERIAL IMAGE)
	T TELEPHONE LINE		⊙ ELECTRIC PEDESTAL
	⊙ SANITARY MANHOLE (SMH)		⊙ GUY WIRE
	⊙ DRAINAGE MANHOLE (DMH)		⊙ FINISHED FLOOR ELEVATION
	⊙ CATCHBASIN (CB)		⊙ SPOT ELEVATION
	⊙ METAL POST/BOLLARD (BOL)		⊙ MAILBOX



REVISIONS	
DATE	DESCRIPTION



(SEE SHEET 1 FOR SURVEY NOTES)

BOUNDARY AND TOPOGRAPHIC MAP OF
**LANDS OF TOWN OF BOXFORD
HARRY LEE COLE SCHOOL**
TOWN OF BOXFORD

COUNTY OF ESSEX COMMONWEALTH OF MASSACHUSETTS

Weston & Sampson
55 Walkers Brook Drive, Suite 100, Reading, MA 01867

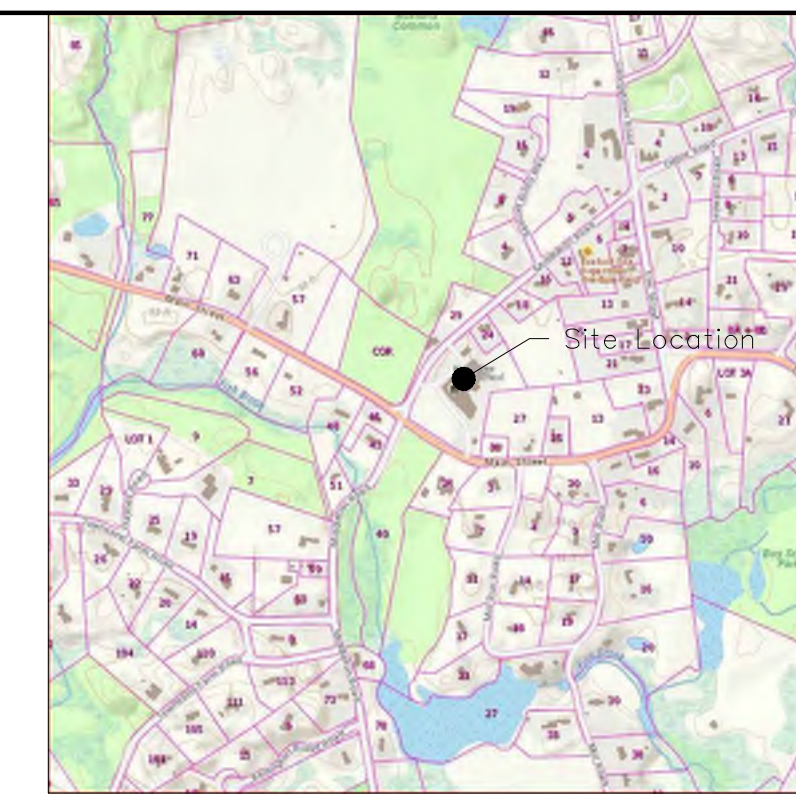
CAD FILE: ENG20-0870 Harry Lee Cole
DATE: NOV. 11, 2020 SHEET 2 OF 3
SCALE: 1"=20' DRAWING No. C 003

I CERTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

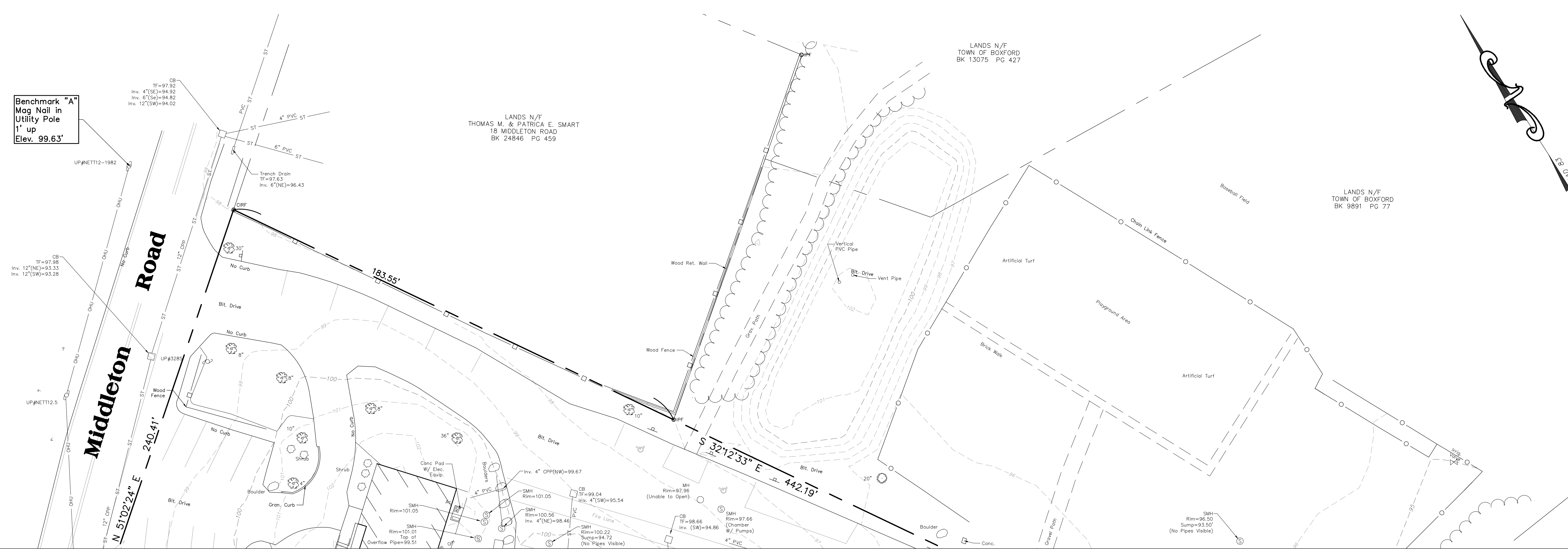
Michael G. Wilmes 11/11/20
Michael G. Wilmes, L.S. 34322 Date

EXISTING CONDITIONS LEGEND

- EDGE OF WOODS
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB/BUSH
- SIGN
- UTILITY POLE
- LIGHT POLE
- HYDRANT
- WATER SHUTOFF
- GAS VALVE
- WATER VALVE
- MONUMENT
- IRON PIN / IRON ROD
- HANDICAP SPACE
- HAND HOLE
- ELEC. METER
- GAS METER
- PROPERTY LINE
- EASEMENT
- 10' MAJOR CONTOUR LINE
- 5' MINOR CONTOUR LINE
- W/F WOOD FRAMED
- CHAIN LINK FENCE
- WOOD FENCE
- FENCE
- CLEANOUT
- MONITORING WELL
- STONEWALL
- ST STORM SEWER LINE
- S SANITARY SEWER LINE
- W WATER LINE
- G GAS LINE
- SIG SIGNAL WIRE LINE
- C CABLE LINE
- FO FIBER OPTIC LINE
- LPS LOW PRESSURE SEWER LINE
- E ELECTRIC LINE
- OHU OVERHEAD UTILITIES
- T TELEPHONE LINE
- S SANITARY MANHOLE (SMH)
- D DRAINAGE MANHOLE (DMH)
- CB CATCHBASIN (CB)
- M METAL POST/BOLLARD (BOL)
- E ELECTRIC MANHOLE (WHE)
- U UNKNOWN MANHOLE
- M TELEPHONE MANHOLE (MHT)
- V VENT PIPE
- CN COULD NOT OPEN
- F FLOW DIRECTION
- MAG NAIL MAGNETIC CONCRETE NAIL
- WLF #10B1 WETLAND FLAG (DELINEATED BY OTHERS)
- WET-TR WETLAND LINE
- EDGE OF WATER (BY AERIAL IMAGE)
- ELECTRIC PEDESTAL
- GUY WIRE
- F.F. FINISHED FLOOR ELEVATION
- S.P. SPOT ELEVATION
- M MALBOX



LOCATION MAP
NOT TO SCALE



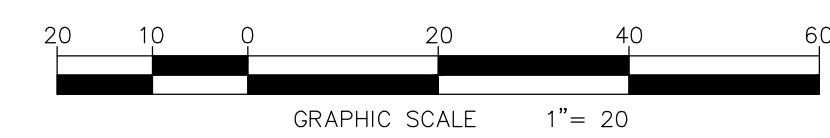
Benchmark "A"
Mag Nail in
Utility Pole
1' up
Elev. 99.63'

LANDS N/F
THOMAS M. & PATRICA E. SMART
18 MIDDLETON ROAD
BK 24846 PG 459

LANDS N/F
TOWN OF BOXFORD
BK 13075 PG 427

LANDS N/F
TOWN OF BOXFORD
BK 9891 PG 77

Match Line
(See Sheet 2)



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Michael G. Wilmes 11/11/20
Michael G. Wilmes, L.S. 34322 Date

REVISIONS	
DATE	DESCRIPTION



(SEE SHEET 1 FOR SURVEY NOTES)

BOUNDARY AND TOPOGRAPHIC MAP OF
LANDS OF TOWN OF BOXFORD
HARRY LEE COLE SCHOOL
TOWN OF BOXFORD

COUNTY OF ESSEX COMMONWEALTH OF MASSACHUSETTS

Weston & Sampson
55 Walkers Brook Drive, Suite 100, Reading, MA 01867

CAD FILE: ENG20-0870 Harry Lee Cole
DATE: NOV. 11, 2020 SHEET 3 OF 3
SCALE: 1"=20' DRAWING NO. C 004

SURVEY NOTES

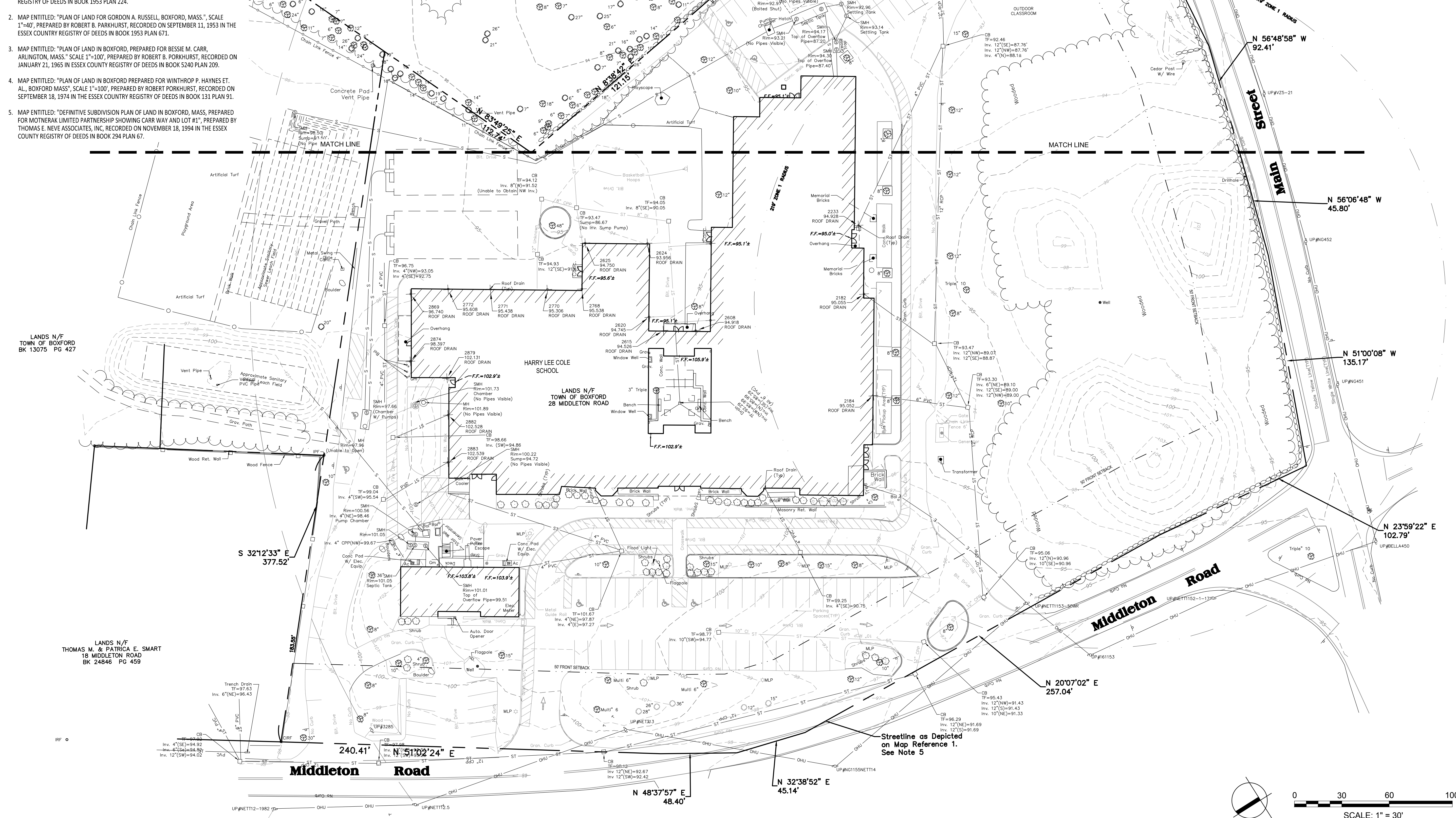
- UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND RECORD DRAWINGS AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES.
- SURVEY PERFORMED BY WESTON & SAMPSON ENGINEERS IN OCTOBER 2020.
- CONTOURS AND ELEVATIONS SHOWN BASED ON GPS OBSERVATIONS ON NAVD88 VERTICAL DATUM.
- NORTH ORIENTATION IS BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE FIELD SURVEY. MAPPING PREPARED ON NAD83 STATE PLANE COORDINATE SYSTEM (MASSACHUSETTS MAINLAND).
- STREETLINE ALONG MIDDLETON ROAD, AS DEPICTED HEREON, IS FROM THE MAP REFERENCE 1. NO RECORD LAYOUT FOR MIDDLETON ROAD WAS FOUND ON FILE.
- EXISTING UTILITY INFORMATION PROVIDED BY TOWN RECORDS.
- TREE SURVEY COMPLETED BY WESTON & SAMPSON ON 10/31/22 & 11/2/22.

MAP REFERENCES

- MAP ENTITLED: "PLAN OF LAND LOCATED IN BOXFORD, MA", SCALE: 1"=60', PREPARED BY DANA F. PERKINS AND SONS, RECORDED ON APRIL 6, 1953 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 1953 PLAN 224.
- MAP ENTITLED: "PLAN OF LAND FOR GORDON A. RUSSELL, BOXFORD, MASS.", SCALE 1"=40', PREPARED BY ROBERT B. PARKHURST, RECORDED ON SEPTEMBER 11, 1953 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 1953 PLAN 671.
- MAP ENTITLED: "PLAN OF LAND IN BOXFORD, PREPARED FOR BESSIE M. CARR, ARLINGTON, MASS.", SCALE 1"=100', PREPARED BY ROBERT B. PARKHURST, RECORDED ON JANUARY 21, 1965 IN ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 5240 PLAN 209.
- MAP ENTITLED: "PLAN OF LAND IN BOXFORD PREPARED FOR WINTHROP P. HAYNES ET. AL., BOXFORD MASS", SCALE 1"=100', PREPARED BY ROBERT PARKHURST, RECORDED ON SEPTEMBER 18, 1974 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 131 PLAN 91.
- MAP ENTITLED: "DEFINITIVE SUBDIVISION PLAN OF LAND IN BOXFORD, MASS, PREPARED FOR MOTNERAK LIMITED PARTNERSHIP SHOWING CARR WAY AND LOT #1", PREPARED BY THOMAS E. NEVE ASSOCIATES, INC, RECORDED ON NOVEMBER 18, 1994 IN THE ESSEX COUNTY REGISTRY OF DEEDS IN BOOK 254 PLAN 67.

LEGEND

- | | | | | |
|-------------------------|-----|-------------------------------------|-----|--------------------|
| EDGE OF WOODS | ST | STORM SEWER LINE | HH | HAND HOLE |
| DECIDUOUS TREE | S | SANITARY SEWER LINE | E | ELEC. METER |
| CONIFEROUS TREE | W | WATER LINE | G | GAS METER |
| SHRUB / BUSH | G | GAS LINE | --- | PROPERTY LINE |
| SIGN | SIG | SIGNAL WIRE LINE | --- | LIMIT OF WORK |
| UTILITY POLE | C | CABLE LINE | --- | EASEMENT |
| LIGHT POLE | FO | FIBER OPTIC LINE | --- | MAJOR CONTOUR LINE |
| HYDRANT | LPS | LOW PRESSURE SEWER LINE | --- | MINOR CONTOUR LINE |
| WATER SHUTOFF | E | ELECTRIC LINE | W/F | WOOD FRAMED |
| GAS VALVE | OHU | OVERHEAD UTILITIES | --- | CHAIN LINK FENCE |
| WATER VALVE | T | TELEPHONE LINE | --- | WOOD FENCE |
| IRON PIN / IRON ROD | ⑤ | SANITARY MANHOLE (SMH) | --- | FENCE |
| HANDICAP SPACE | ⑥ | DRAINAGE MANHOLE (DMH) | --- | CLEANOUT |
| ELECTRIC MANHOLE (MHE) | ⑦ | METAL POST / BOLLARD (BOL) | --- | MONITORING WELL |
| UNKNOWN MANHOLE | ⑧ | FLOW DIRECTION | --- | STONE WALL |
| TELEPHONE MANHOLE (MHT) | ⑨ | MAGNETIC CONDUIT NAIL | --- | MAG NAIL |
| VENT PIPE | ⑩ | WETLAND FLAG (DELINEATED BY OTHERS) | --- | WET-TR |
| COULD NOT OPEN | ⑪ | WETLAND LINE | --- | TP-6 |
| | | EDGE OF WATER (BY AERIAL IMAGE) | --- | B-HC-1 |
| | | APPROXIMATE TEST PIT LOCATION | --- | |
| | | APPROXIMATE BORING LOCATION | --- | |



Project:
BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT

HARRY LEE COLE SCHOOL
 26 AND 28 MIDDLETON ROAD
 BOXFORD, MA 01921

Weston & Sampson

Weston & Sampson Engineers, Inc.
 55 Walkers Brook Drive, Suite 100
 Reading, MA 01867
 978.532.1900 800.SAMPSON
 www.westonandsampson.com

Consultants:

No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM

Revisions:

No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM

Seal:

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Scale: AS SHOWN
 Date: MAY 6, 2022
 Drawn By: EJA
 Reviewed By: CB
 Approved By: JJP
 W&S Project No.: ENG20-0865
 W&S File No.:

Drawing Title:
EXISTING CONDITIONS PLAN

Sheet Number:
C100

SCALE: 1" = 30'

0 30 60 100

Rev. 13 Date: 10/24/2019

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LEGEND

- | | | | | | |
|--|-------------------------|--|---|--|---------------------------------|
| | EDGE OF WOODS | | ST - STORM SEWER LINE | | HH - HAND HOLE |
| | DECIDUOUS TREE | | S - SANITARY SEWER LINE | | E - ELEC. METER |
| | CONIFEROUS TREE | | W - WATER LINE | | G - GAS METER |
| | SHRUB / BUSH | | G - GAS LINE | | G - PROPERTY LINE |
| | SIGN | | SIG - SIGNAL WIRE LINE | | L - LIMIT OF WORK |
| | UTILITY POLE | | C - CABLE LINE | | E - EASEMENT |
| | LIGHT POLE | | FO - FIBER OPTIC LINE | | M - MAJOR CONTOUR LINE |
| | HYDRANT | | LPS - LOW PRESSURE SEWER LINE | | m - MINOR CONTOUR LINE |
| | WATER SHUTOFF | | E - ELECTRIC LINE | | W/F - WOOD FRAMED |
| | GAS VALVE | | OHU - OVERHEAD UTILITIES | | CLF - CHAIN LINK FENCE |
| | WATER VALVE | | T - TELEPHONE LINE | | WF - WOOD FENCE |
| | MONUMENT | | SMH - SANITARY MANHOLE (SMH) | | F - FENCE |
| | IRON PIN / IRON ROD | | DMH - DRAINAGE MANHOLE (DMH) | | CO - CLEANOUT |
| | HANDICAP SPACE | | CB - CATCHBASIN (CB) | | MW - MONITORING WELL |
| | ELECTRIC MANHOLE (MHE) | | BOL - METAL POST / BOLLARD (BOL) | | SW - STONE WALL |
| | UNKNOWN MANHOLE | | FD - FLOW DIRECTION | | EP - ELECTRICAL PEDESTAL |
| | TELEPHONE MANHOLE (MHT) | | MAG NAIL - MAGNETIC CONCRETE NAIL | | GW - GUY WIRE |
| | VENT PIPE | | WLF - WETLAND FLAG (DELINEATED BY OTHERS) | | F.F. - FINISHED FLOOR ELEVATION |
| | COULD NOT OPEN | | WET-LR - WETLAND LINE | | SE - SPOT ELEVATION |
| | | | EW - EDGE OF WATER (BY AERIAL IMAGE) | | M - MAILBOX |
| | | | ATP-6 - APPROXIMATE TEST PIT LOCATION | | |
| | | | B-HC-1 - APPROXIMATE BORING LOCATION | | |

Project:
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Consultants:

Revisions:

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1	10/06/22	REV PER CLIENT
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Seal:

JAMES I. PEARSON
 CIVIL
 No. 50675
 REGISTERED PROFESSIONAL ENGINEER
 11/09/2022

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Reviewed By: CB

Approved By: JIP

W&S Project No.: ENG20-0865

W&S File No.:

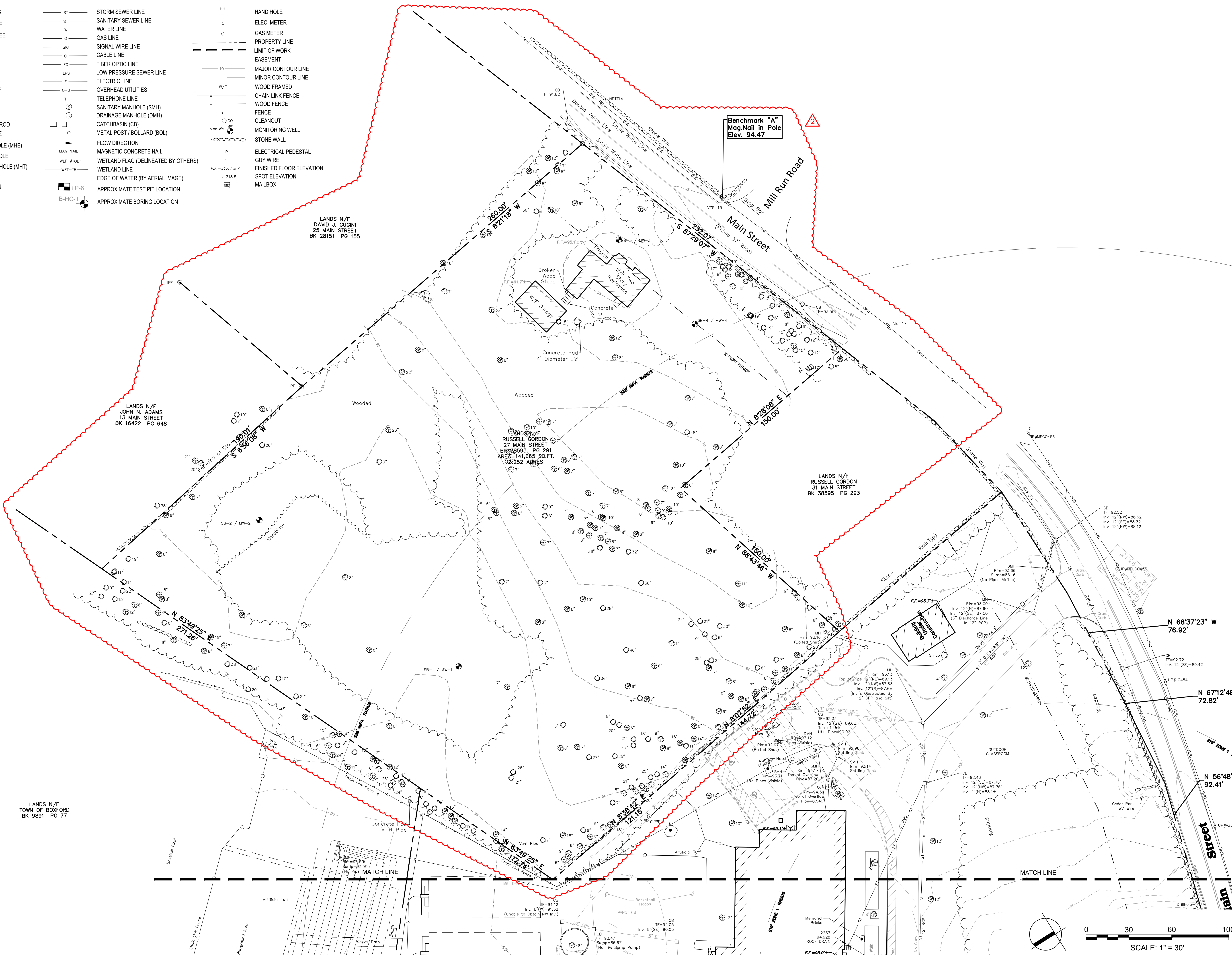
Drawing Title:

EXISTING CONDITIONS PLAN

Sheet Number:

C101

Rev. 13 Date: 10/24/2019

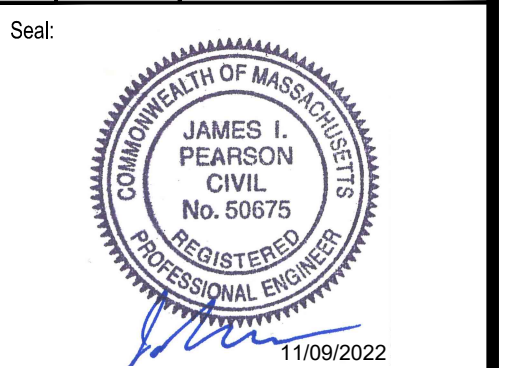


W&S Project No.: ENG20-0865; Date: 10/24/2019; Rev. 13; Scale: 1" = 30'; Drawing Title: EXISTING CONDITIONS PLAN; Sheet Number: C101

Rev. 13 Date: 10/24/2019



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Date: MAY 6, 2022
Drawn By: EJA
Reviewed By: CB
Approved By: JJP
W&S Project No.: ENG20-0865
W&S File No.:

Drawing Title:
SITE PREPARATION & EROSION & SEDIMENT CONTROL PLAN

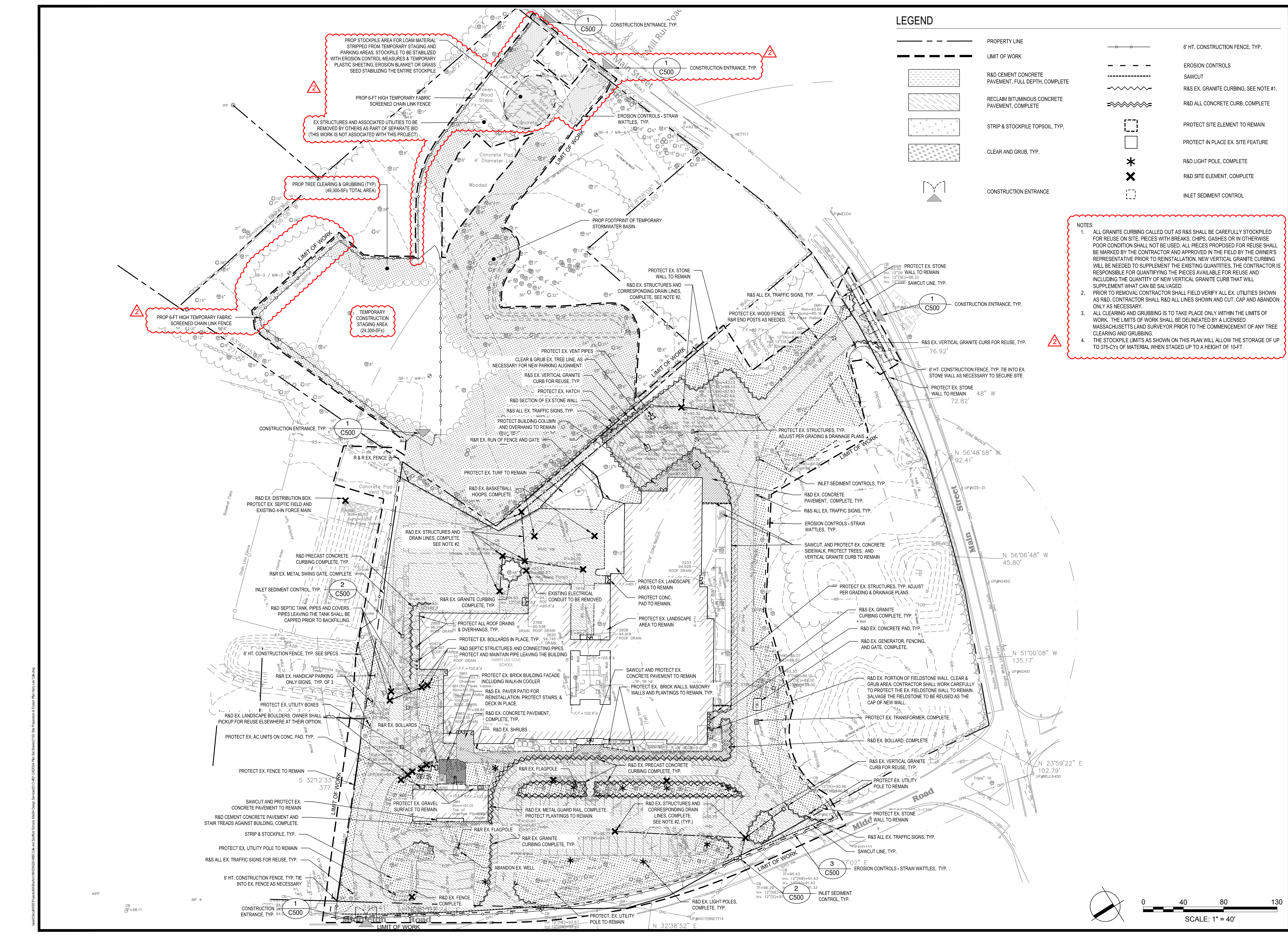
Sheet Number:
C110

LEGEND

	PROPERTY LINE		6' HT. CONSTRUCTION FENCE, TYP.
	LIMIT OF WORK		EROSION CONTROLS
	R&D CEMENT CONCRETE PAVEMENT, FULL DEPTH, COMPLETE		SAWCUT
	RECLAIM BITUMINOUS CONCRETE PAVEMENT, COMPLETE		R&S EX. GRANITE CURBING, SEE NOTE #1.
	STRIP & STOCKPILE TOPSOIL, TYP.		R&D ALL CONCRETE CURB, COMPLETE
	CLEAR AND GRUB, TYP.		PROTECT SITE ELEMENT TO REMAIN
	CONSTRUCTION ENTRANCE		PROTECT IN PLACE EX. SITE FEATURE
			R&D LIGHT POLE, COMPLETE
			R&D SITE ELEMENT, COMPLETE
			INLET SEDIMENT CONTROL

NOTES:

- ALL GRANITE CURBING CALLED OUT AS R&S SHALL BE CAREFULLY STOCKPILED FOR REUSE ON SITE. PIECES WITH BREAKS, CHIPS, GASHES OR IN OTHERWISE POOR CONDITION SHALL NOT BE USED. ALL PIECES PROPOSED FOR REUSE SHALL BE MARKED BY THE CONTRACTOR AND APPROVED IN THE FIELD BY THE OWNER'S REPRESENTATIVE PRIOR TO REINSTALLATION. NEW VERTICAL GRANITE CURBING WILL BE NEEDED TO SUPPLEMENT THE EXISTING QUANTITIES. THE CONTRACTOR IS RESPONSIBLE FOR QUANTIFYING THE PIECES AVAILABLE FOR REUSE AND INCLUDING THE QUANTITY OF NEW VERTICAL GRANITE CURB THAT WILL SUPPLEMENT WHAT CAN BE SALVAGED.
- PRIOR TO REMOVAL CONTRACTOR SHALL FIELD VERIFY ALL EX. UTILITIES SHOWN AS R&D. CONTRACTOR SHALL R&D ALL LINES SHOWN AND CUT, CAP AND ABANDON ONLY AS NECESSARY.
- ALL CLEARING AND GRUBBING IS TO TAKE PLACE ONLY WITHIN THE LIMITS OF WORK. THE LIMITS OF WORK SHALL BE DELINEATED BY A LICENSED MASSACHUSETTS LAND SURVEYOR PRIOR TO THE COMMENCEMENT OF ANY TREE CLEARING AND GRUBBING.
- THE STOCKPILE LIMITS AS SHOWN ON THIS PLAN WILL ALLOW THE STORAGE OF UP TO 375-CY₂ OF MATERIAL WHEN STAGED UP TO A HEIGHT OF 10-FT.

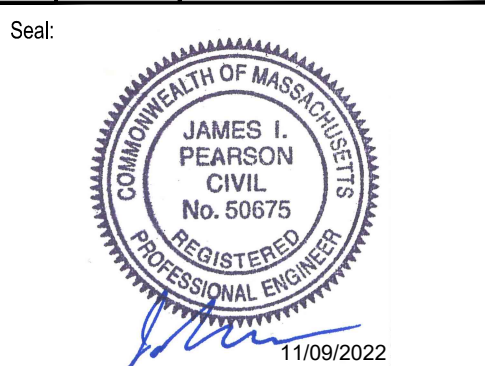


Consultants:

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Revisions:

No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM



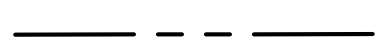





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 Approved By: JJP
 W&S Project No.: ENG20-0865
 W&S File No.:

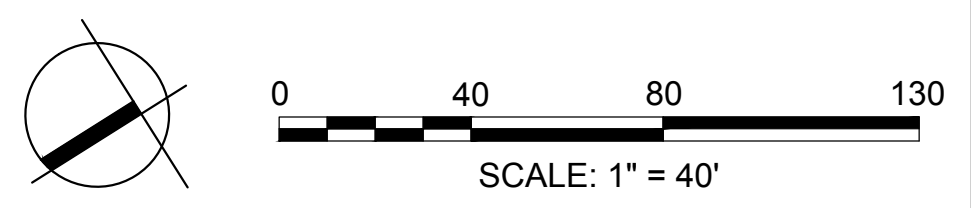
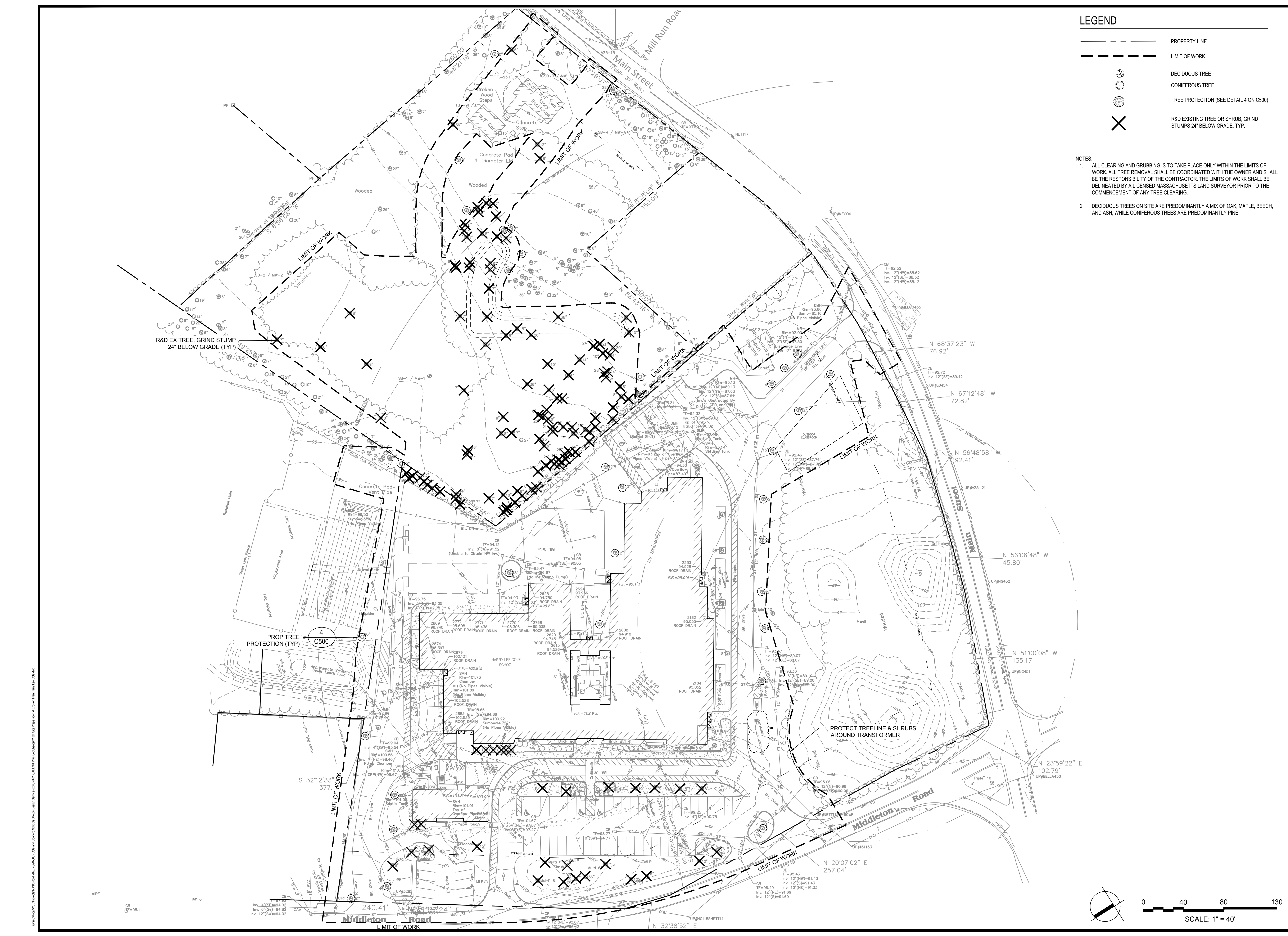
Drawing Title:
**TREE REMOVAL
 & PROTECTION
 PLAN**

Sheet Number:
C111

LEGEND

-  PROPERTY LINE
-  LIMIT OF WORK
-  DECIDUOUS TREE
-  CONIFEROUS TREE
-  TREE PROTECTION (SEE DETAIL 4 ON C500)
-  R&D EXISTING TREE OR SHRUB, GRIND STUMPS 24" BELOW GRADE, TYP.



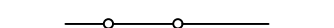

- NOTES:
- ALL CLEARING AND GRUBBING IS TO TAKE PLACE ONLY WITHIN THE LIMITS OF WORK. ALL TREE REMOVAL SHALL BE COORDINATED WITH THE OWNER AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE LIMITS OF WORK SHALL BE DELINEATED BY A LICENSED MASSACHUSETTS LAND SURVEYOR PRIOR TO THE COMMENCEMENT OF ANY TREE CLEARING.
 - DECIDUOUS TREES ON SITE ARE PREDOMINANTLY A MIX OF OAK, MAPLE, BEECH, AND ASH, WHILE CONIFEROUS TREES ARE PREDOMINANTLY PINE.



W&S Project No.: ENG20-0865; Drawing Title: TREE REMOVAL & PROTECTION PLAN; Sheet Number: C111; Date: MAY 6, 2022; Scale: AS SHOWN; Drawn By: EJA; Reviewed By: CB; Approved By: JJP; W&S File No.:

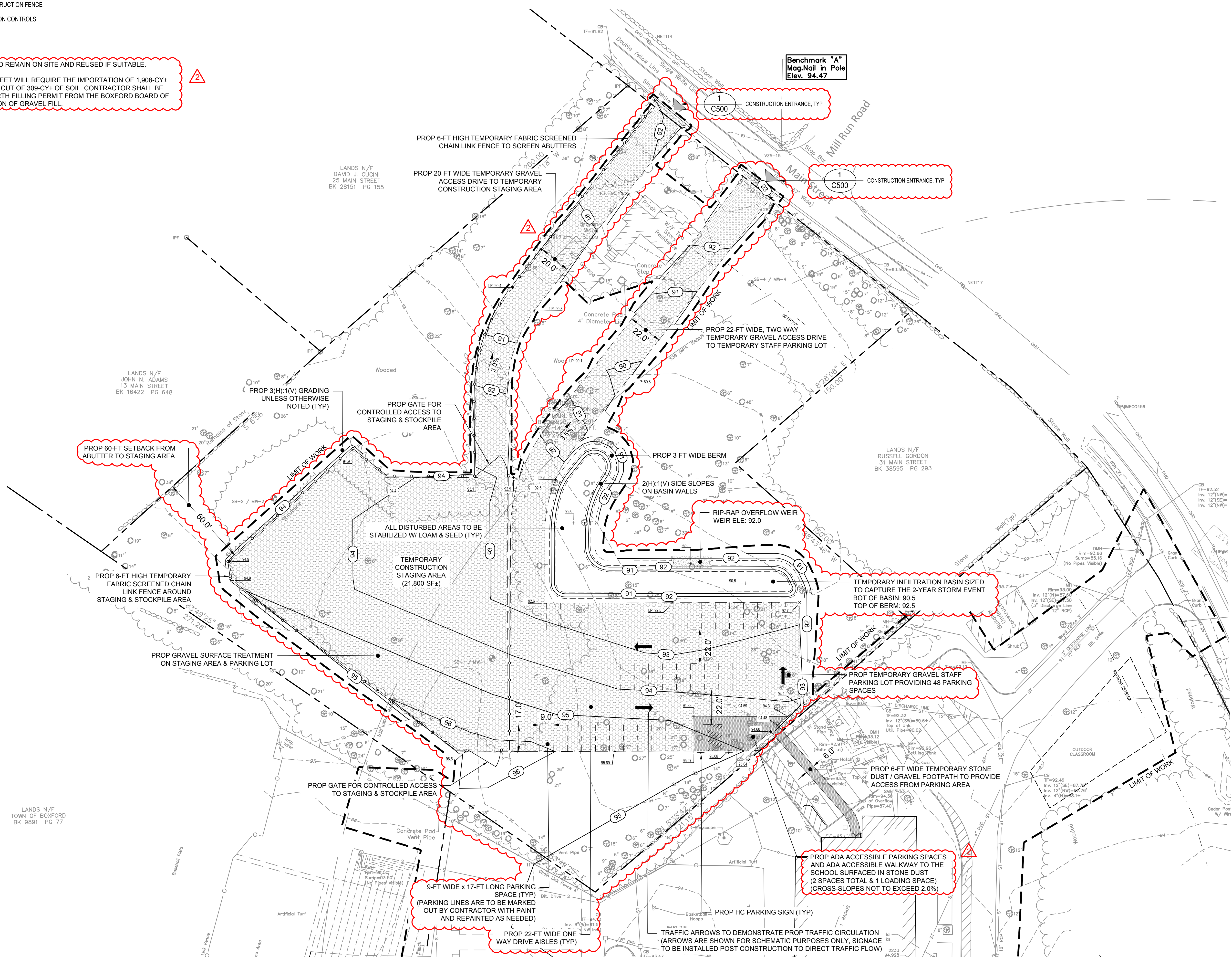
Rev. 18 Date: 10/24/2019

LEGEND

-  PROPERTY LINE
-  LIMIT OF WORK
-  CONSTRUCTION FENCE
-  EROSION CONTROLS

NOTES:

1. ALL MATERIAL STRIPPED IS TO REMAIN ON SITE AND REUSED IF SUITABLE.
2. EARTHWORK ON 27 MAIN STREET WILL REQUIRE THE IMPORTATION OF 1,908-CY± OF GRAVEL AND PRODUCE A CUT OF 309-CY± OF SOIL. CONTRACTOR SHALL BE REQUIRED TO OBTAIN AN EARTH FILLING PERMIT FROM THE BOXFORD BOARD OF HEALTH FOR THE IMPORTATION OF GRAVEL FILL.



Project:
BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT



HARRY LEE COLE SCHOOL
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 BOXFORD, MA 01921

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Consultants:

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Seal:



JAMES I. PEARSON
 CIVIL
 No. 50675
 REGISTERED PROFESSIONAL ENGINEER
 11/09/2022

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W&S Project No.: ENG20-0865

W&S File No.:

Drawing Title:

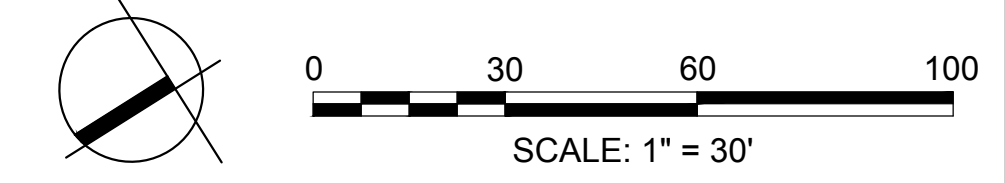
TEMPORARY CONSTRUCTION STAGING & PARKING PLAN

Sheet Number:

C112

Rev. 18 Date: 10/24/2019

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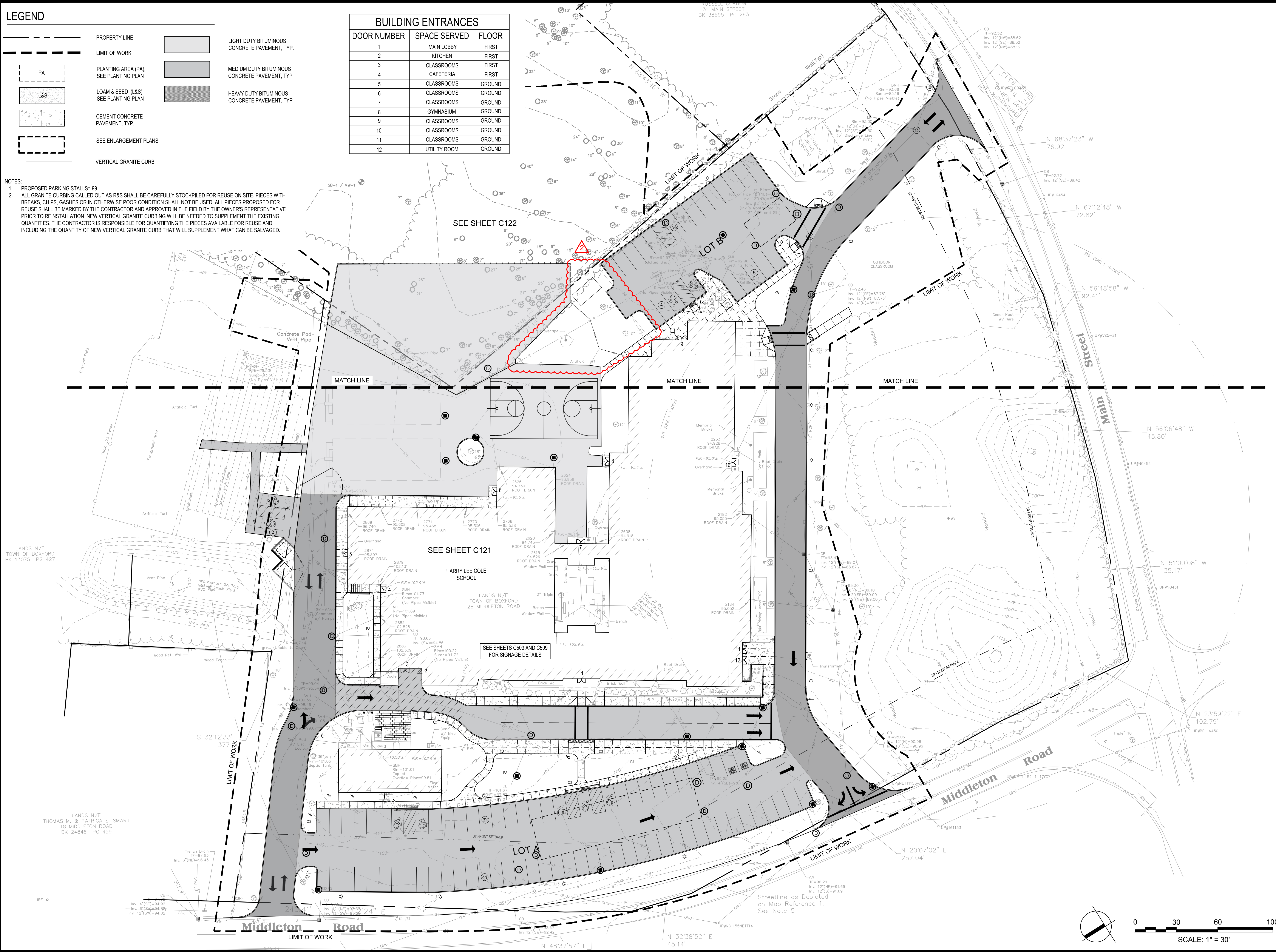
LEGEND

	PROPERTY LINE		LIGHT DUTY BITUMINOUS CONCRETE PAVEMENT, TYP.
	LIMIT OF WORK		MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT, TYP.
	PLANTING AREA (PA), SEE PLANTING PLAN		HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT, TYP.
	LOAM & SEED (L&S), SEE PLANTING PLAN		
	CEMENT CONCRETE PAVEMENT, TYP.		
	SEE ENLARGEMENT PLANS		
	VERTICAL GRANITE CURB		

BUILDING ENTRANCES		
DOOR NUMBER	SPACE SERVED	FLOOR
1	MAIN LOBBY	FIRST
2	KITCHEN	FIRST
3	CLASSROOMS	FIRST
4	CAFETERIA	FIRST
5	CLASSROOMS	GROUND
6	CLASSROOMS	GROUND
7	CLASSROOMS	GROUND
8	GYMNASIUM	GROUND
9	CLASSROOMS	GROUND
10	CLASSROOMS	GROUND
11	CLASSROOMS	GROUND
12	UTILITY ROOM	GROUND

NOTES:

- PROPOSED PARKING STALLS= 99
- ALL GRANITE CURBING CALLED OUT AS R&S SHALL BE CAREFULLY STOCKPILED FOR REUSE ON SITE. PIECES WITH BREAKS, CHIPS, GASHES OR IN OTHERWISE POOR CONDITION SHALL NOT BE USED. ALL PIECES PROPOSED FOR REUSE SHALL BE MARKED BY THE CONTRACTOR AND APPROVED IN THE FIELD BY THE OWNER'S REPRESENTATIVE PRIOR TO REINSTALLATION. NEW VERTICAL GRANITE CURBING WILL BE NEEDED TO SUPPLEMENT THE EXISTING QUANTITIES. THE CONTRACTOR IS RESPONSIBLE FOR QUANTIFYING THE PIECES AVAILABLE FOR REUSE AND INCLUDING THE QUANTITY OF NEW VERTICAL GRANITE CURB THAT WILL SUPPLEMENT WHAT CAN BE SALVAGED.



Project: **BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT**

HARRY LEE COLE SCHOOL
26 AND 28 MIDDLETON ROAD
BOXFORD, MA 01921

Weston & Sampson

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1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM

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Scale: AS SHOWN

Date: MAY 6, 2022

Drawn By: EJA

Reviewed By: CB

Approved By: JIP

W&S Project No.: ENG20-0865

W&S File No.:

Drawing Title:

OVERALL MATERIALS & LAYOUT PLAN

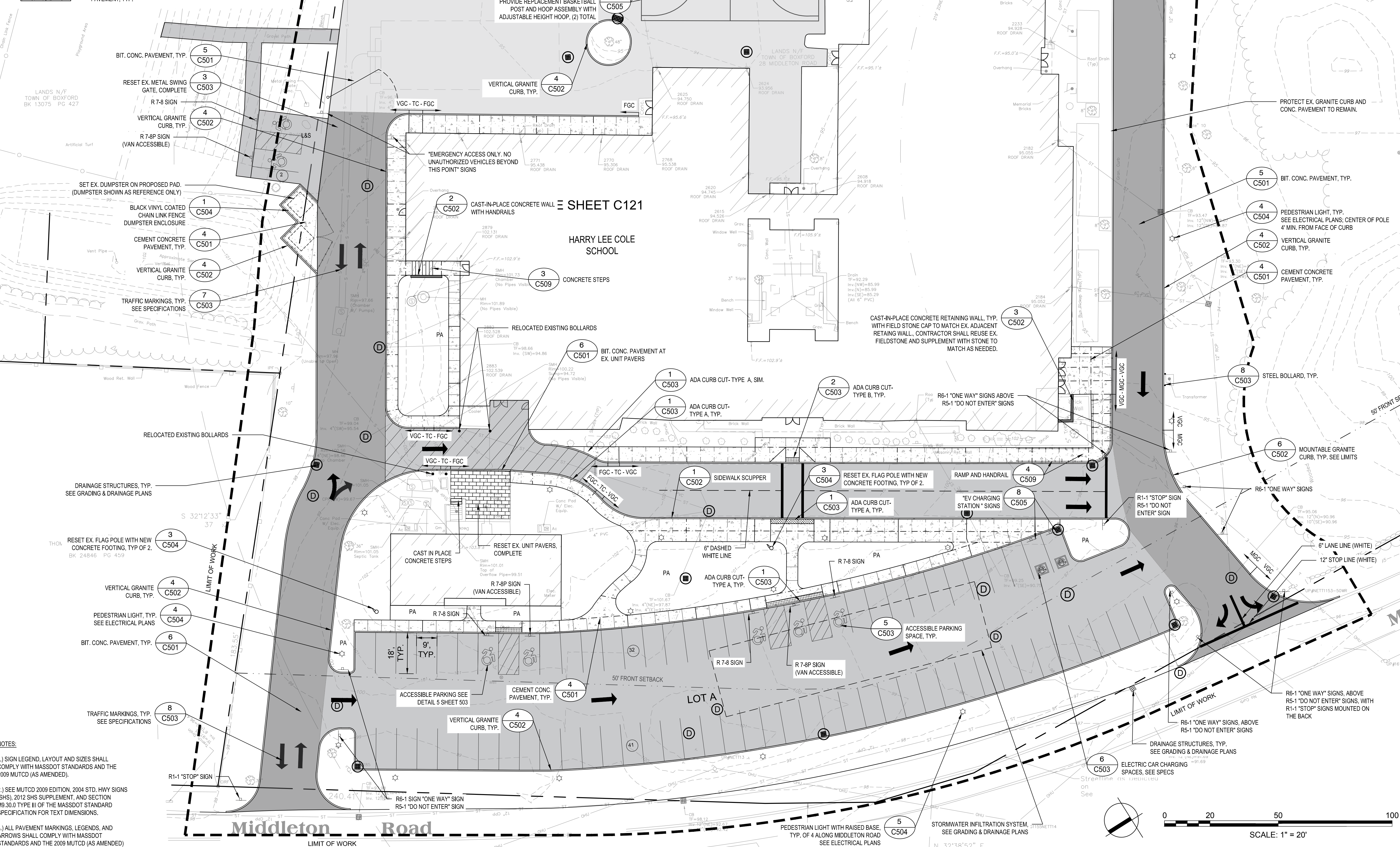
Sheet Number:

C120

Rev. 18 Date: 10/24/2019

LEGEND

- PROPERTY LINE
- - - LIMIT OF WORK
- PA PLANTING AREA (PA), SEE PLANTING PLAN
- Light Duty Bituminous Concrete Pavement, Typ.
- Medium Duty Bituminous Concrete Pavement, Typ.
- Heavy Duty Bituminous Concrete Pavement, Typ.
- Cement Concrete Pavement, Typ.
- RESET EX. FLAG POLE, TYP. OF (2)
- PEDESTRIAN LIGHT POLE, TYP.
- TREELINE
- TRAFFIC MARKINGS, TYP.
- PARKING SPACE COUNT
- VERTICAL GRANITE CURB
- VGC FGC T.C. BIT. CONC. TYP.
- VERTICAL GRANITE CURB FLUSH GRANITE CURB TRANSITION CURB BITUMINOUS CONCRETE TYPICAL



NOTES:

- 1.) SIGN LEGEND, LAYOUT AND SIZES SHALL COMPLY WITH MASSDOT STANDARDS AND THE 2009 MUTCD (AS AMENDED).
- 2.) SEE MUTCD 2009 EDITION, 2004 STD. HWY SIGNS (SHS), 2012 SHS SUPPLEMENT, AND SECTION M9.30.0 TYPE III OF THE MASSDOT STANDARD SPECIFICATION FOR TEXT DIMENSIONS.
- 3.) ALL PAVEMENT MARKINGS, LEGENDS, AND ARROWS SHALL COMPLY WITH MASSDOT STANDARDS AND THE 2009 MUTCD (AS AMENDED).

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Revisions:

No.	Date	Description
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2	11/09/22	REV PER CON COM

Seal:

 JAMES I. PEARSON
 CIVIL
 No. 50675
 REGISTERED PROFESSIONAL ENGINEER
 11/09/2022

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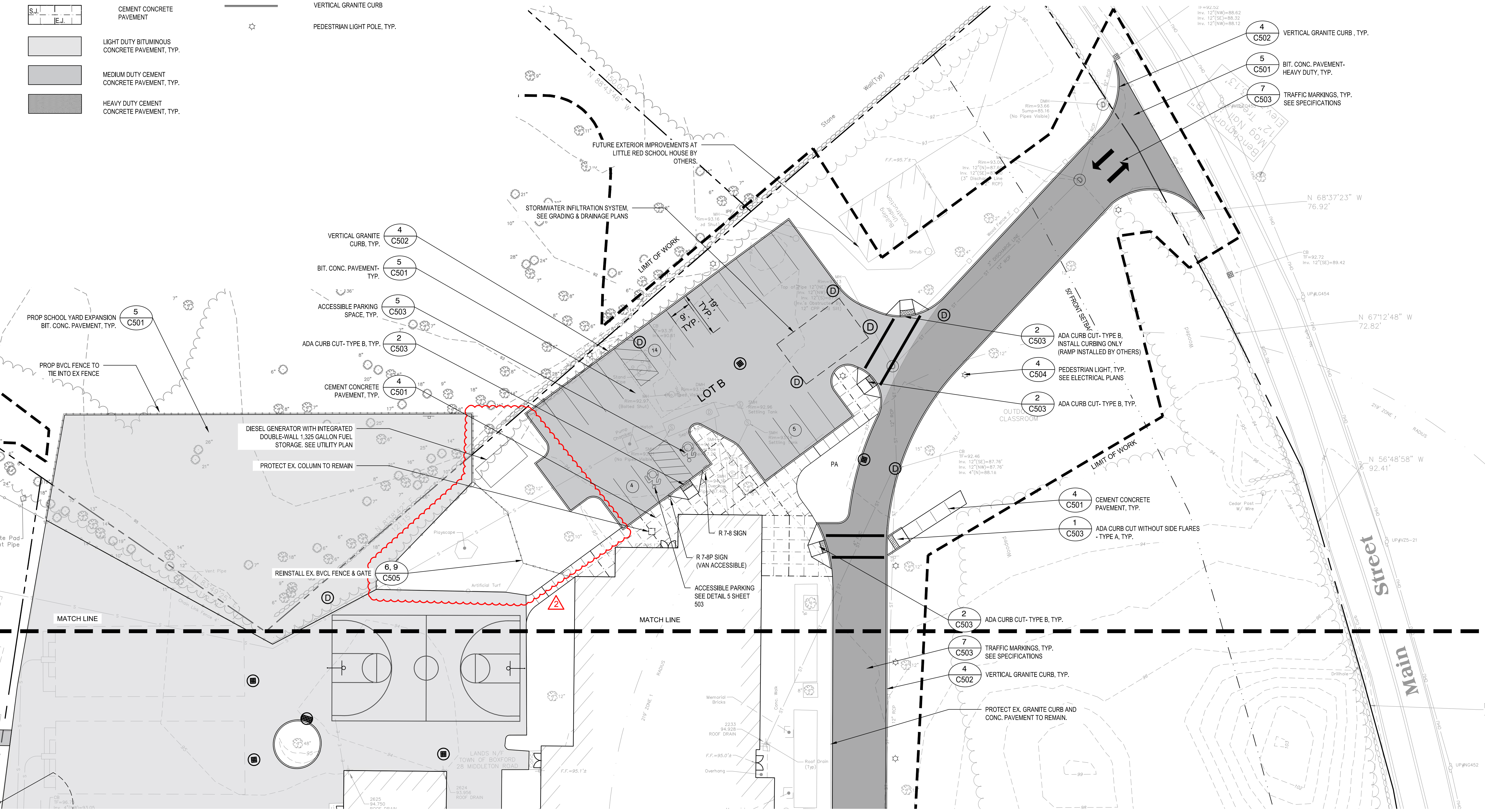
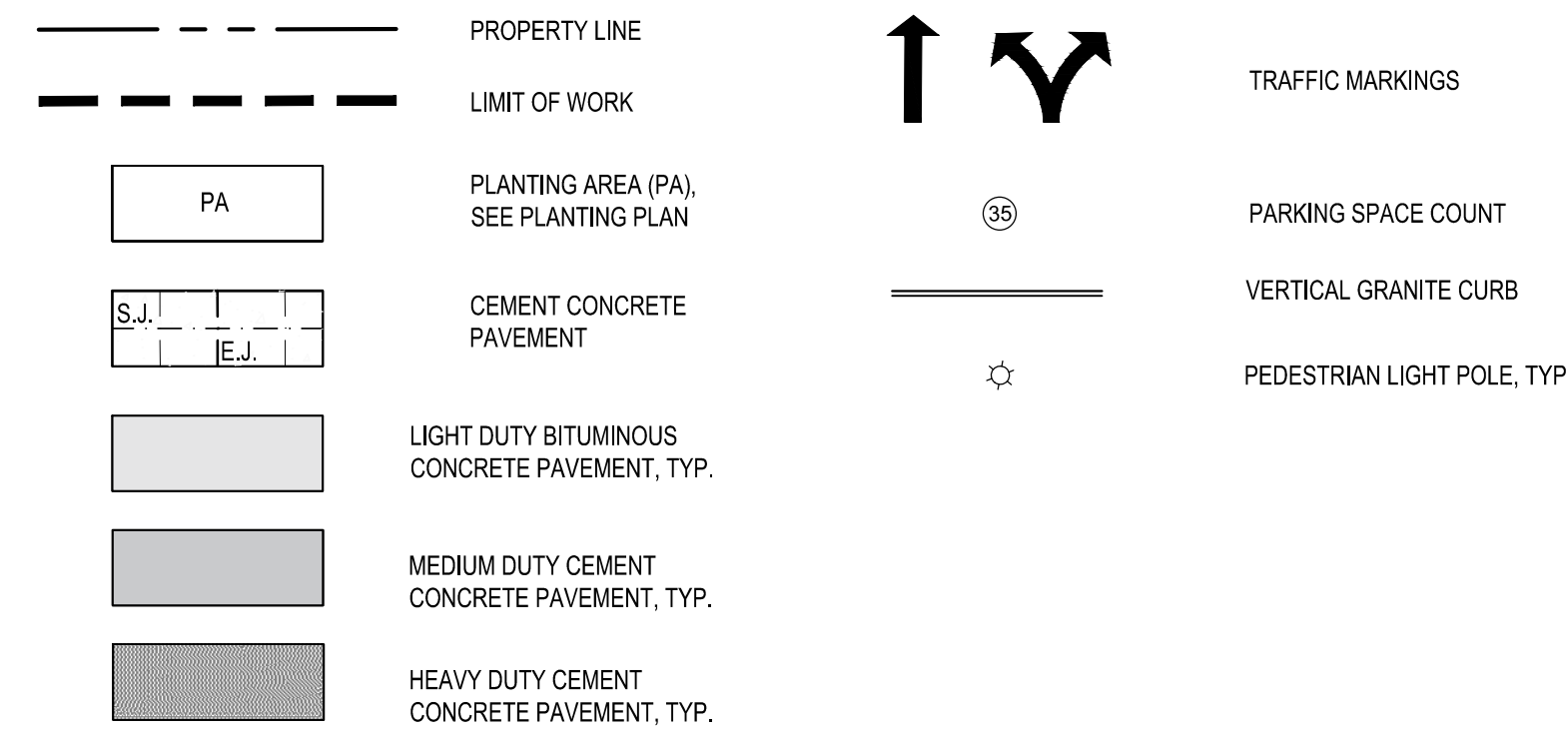
W&S Project No.: ENG20-0865
 W&S File No.:

Drawing Title:
MATERIALS & LAYOUT ENLARGEMENT PLAN

Sheet Number:
C121

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LEGEND



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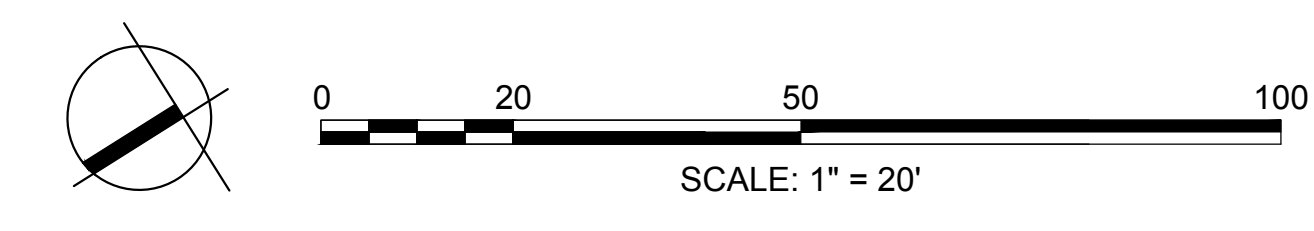
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Drawing Title:
MATERIALS & LAYOUT ENLARGEMENT PLAN




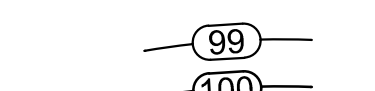
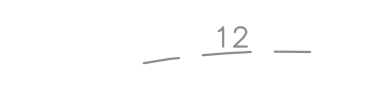

Sheet Number:
C122



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Rev: 18 Date: 10/24/2019

LEGEND

-  PROPERTY LINE
-  LIMIT OF WORK
-  SEE ENLARGEMENT PLANS
-  PROPOSED CONTOURS
-  EXISTING CONTOURS
-  SOIL TO BE EXCAVATED AND DISPOSED OFF-SITE. SEE SECTION 02 61 00.16 - HANDLING, TRANSPORTATION, REUSE AND OFF-SITE DISPOSAL OF EXCAVATED MATERIAL FOR ADDITIONAL INFORMATION.

SEE SHEET C132

SEE SHEET C131

LANDS N/F
TOWN OF BOXFORD
BK 13075 PG 427

LANDS N/
THOMAS M. & PATRICIA E. SMART
18 MIDDLETON ROAD
BK 24846 PG 459

MIDDLETON BOXFORD
31 MAIN STREET
BK 38595 PG 293

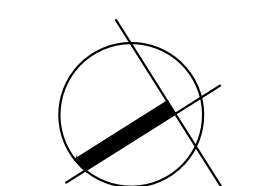
EXCAVATE 0-1 FEET BELOW GRADE AND DISPOSE OF OFF-SITE PER SPECIFICATION SECTION 02 61 00.16. POST-EXCAVATION SAMPLES SHALL BE COLLECTED IN THE PRESENCE OF THE ENGINEER PRIOR TO BACKFILLING. BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 31 00 00 - EARTHWORK.

EXCAVATE 0-4 FEET BELOW GRADE AND DISPOSE OF OFF-SITE PER SPECIFICATION SECTION 02 61 00.16. POST-EXCAVATION SAMPLES SHALL BE COLLECTED IN THE PRESENCE OF THE ENGINEER PRIOR TO BACKFILLING. BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 31 00 00 - EARTHWORK.

NOTES:

1. EXISTING CATCH BASINS TO REMAIN SHALL BE REPLACED WITH DEEP SUMP HOODED CATCH BASINS.

Streeline as Depicted on Map Reference 1. See Note 5



Project: **BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT**



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BOXFORD, MA 01921

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Reviewed By: CB
Approved By: JJP

W&S Project No.: ENG20-0865
W&S File No.:

Drawing Title:

OVERALL GRADING PLAN

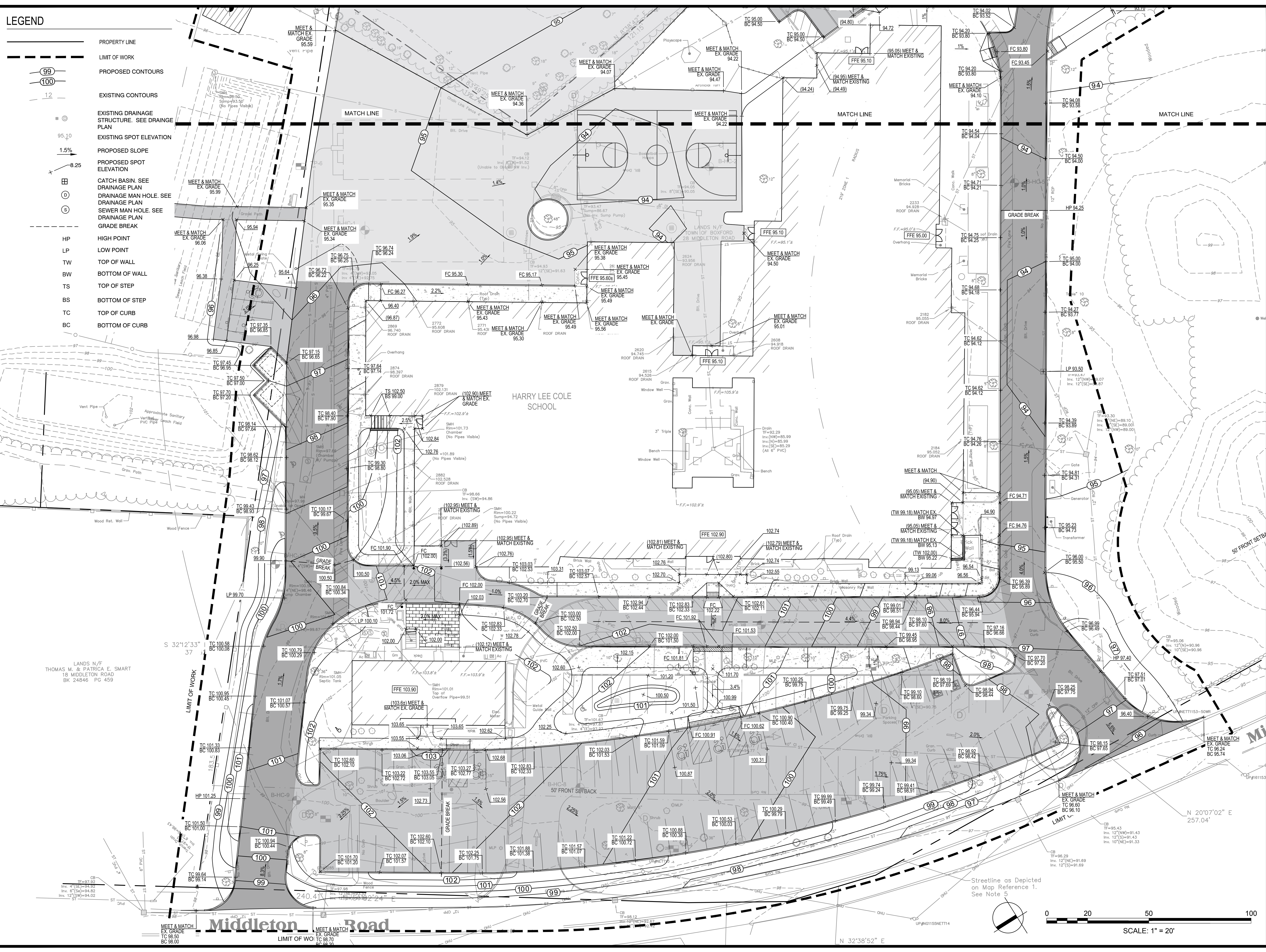
Sheet Number:

C130

Rev. 18 Date: 10/24/2019

LEGEND

- PROPERTY LINE
- - - LIMIT OF WORK
- 99 ○ 100 PROPOSED CONTOURS
- - - 12 EXISTING CONTOURS
- ⊕ EXISTING DRAINAGE STRUCTURE. SEE DRAINAGE PLAN
- 95.10 EXISTING SPOT ELEVATION
- 1.5% PROPOSED SLOPE
- 8.25' PROPOSED SPOT ELEVATION
- ⊕ CATCH BASIN. SEE DRAINAGE PLAN
- ⊕ DRAINAGE MAN HOLE. SEE DRAINAGE PLAN
- ⊕ SEWER MAN HOLE. SEE DRAINAGE PLAN
- - - GRADE BREAK
- HP HIGH POINT
- LP LOW POINT
- TW TOP OF WALL
- BW BOTTOM OF WALL
- TS TOP OF STEP
- BS BOTTOM OF STEP
- TC TOP OF CURB
- BC BOTTOM OF CURB



Project:
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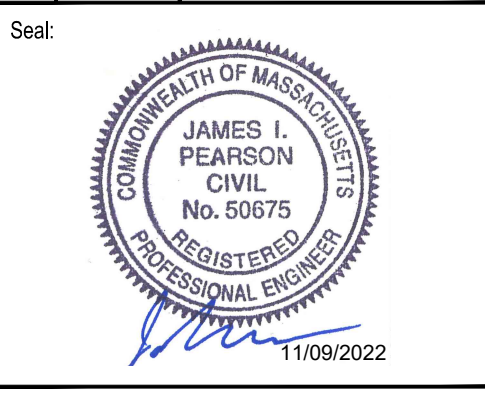
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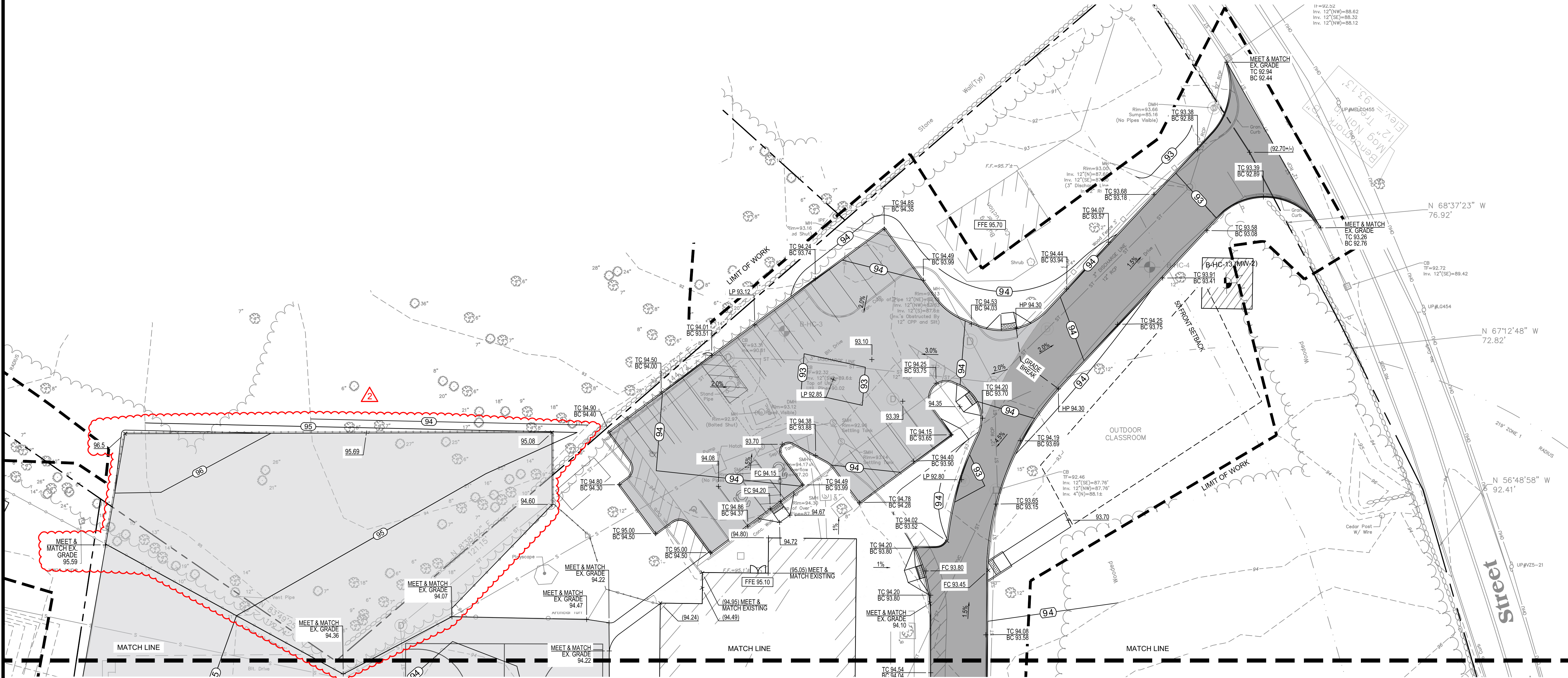
W&S Project No.: ENG20-0865
 W&S File No.:

Drawing Title:
GRADING ENLARGEMENT PLAN

Sheet Number:
C131

LEGEND

	PROPERTY LINE		EXISTING DRAINAGE STRUCTURE. SEE DRAINAGE PLAN		GRADE BREAK
	LIMIT OF WORK		EXISTING SPOT ELEVATION	HP	HIGH POINT
	PROPOSED CONTOURS		PROPOSED SLOPE	LP	LOW POINT
	EXISTING CONTOURS		PROPOSED SPOT ELEVATION	TW	TOP OF WALL
			CATCH BASIN. SEE DRAINAGE PLAN	BW	BOTTOM OF WALL
			DRAINAGE MAN HOLE. SEE DRAINAGE PLAN	TS	TOP OF STEP
			SEWER MAN HOLE. SEE DRAINAGE PLAN	BS	BOTTOM OF STEP
				TC	TOP OF CURB
				BC	BOTTOM OF CURB



Project:
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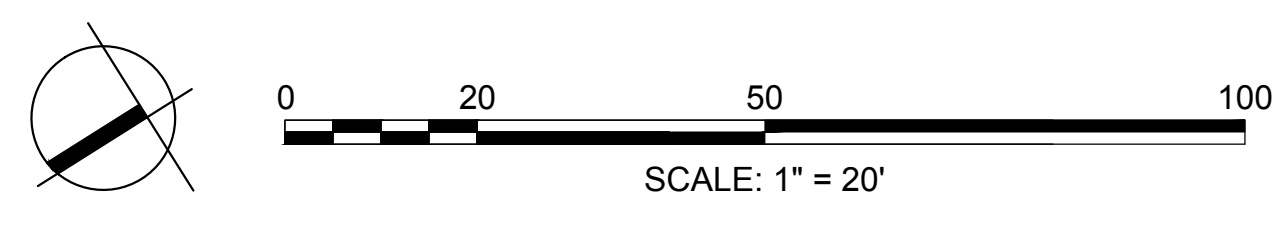
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GRADING ENLARGEMENT PLAN

Sheet Number:






C132

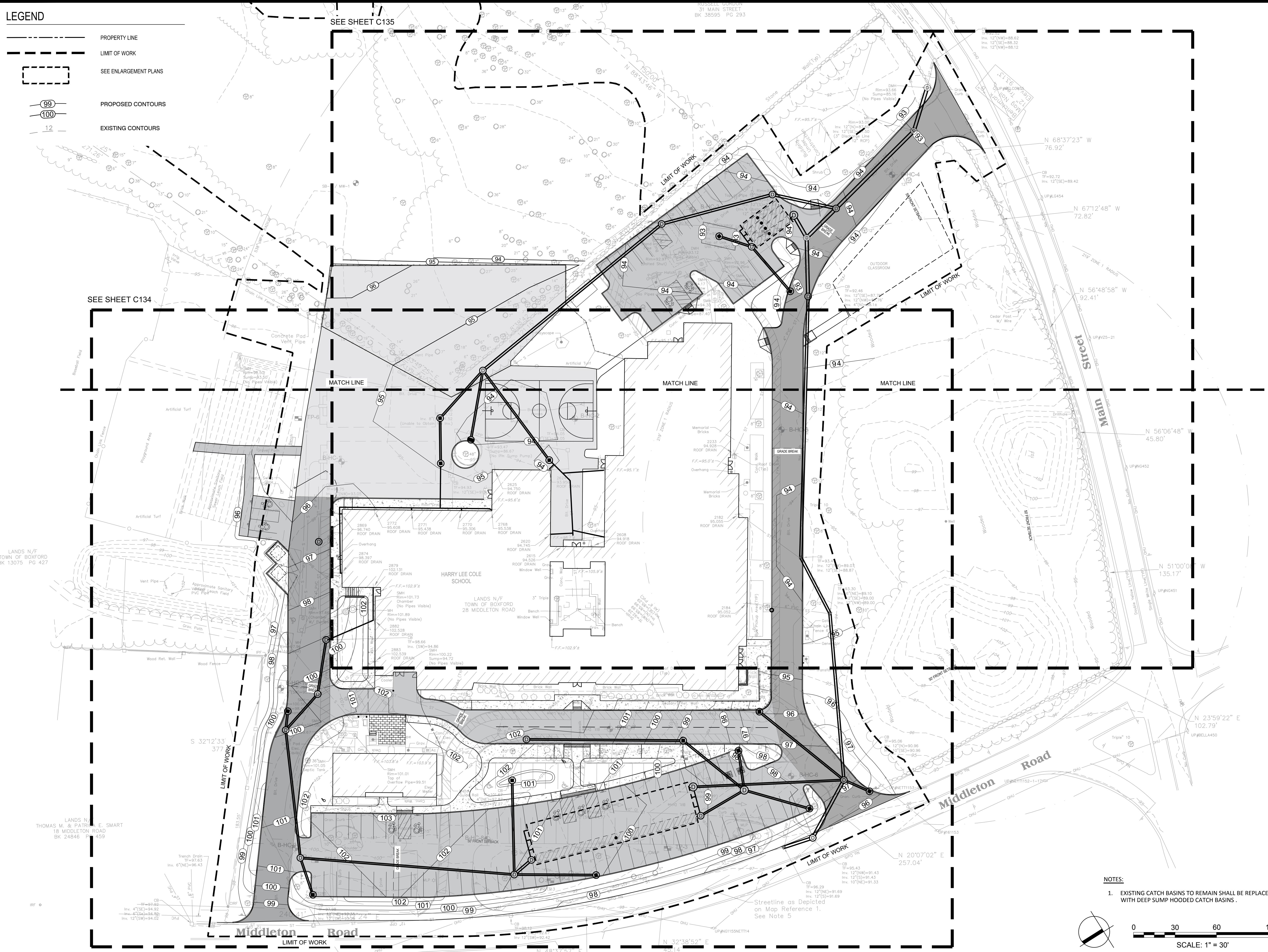


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 User: jrp

Rev: 13 Date: 10/24/2022

LEGEND

-  PROPERTY LINE
-  LIMIT OF WORK
-  SEE ENLARGEMENT PLANS
-  PROPOSED CONTOURS
-  EXISTING CONTOURS



LANDS N/F
TOWN OF BOXFORD
BK 13075 PG 427

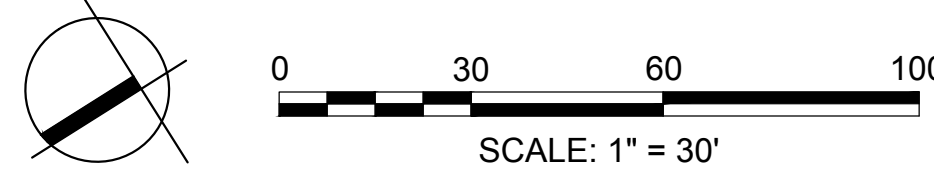
LANDS N/
THOMAS M. & PATRICIA E. SMART
18 MIDDLETON ROAD
BK 24846 P 459

SEE SHEET C135

SEE SHEET C134

NOTES:

- 1. EXISTING CATCH BASINS TO REMAIN SHALL BE REPLACED WITH DEEP SUMP HOODED CATCH BASINS.



Project:
BOXFORD PUBLIC
SCHOOLS SITE
RENOVATION PROJECT



HARRY LEE COLE SCHOOL
26 AND 28 MIDDLETON ROAD
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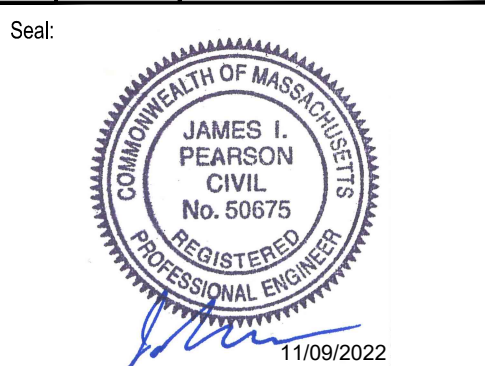


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W&S File No.:

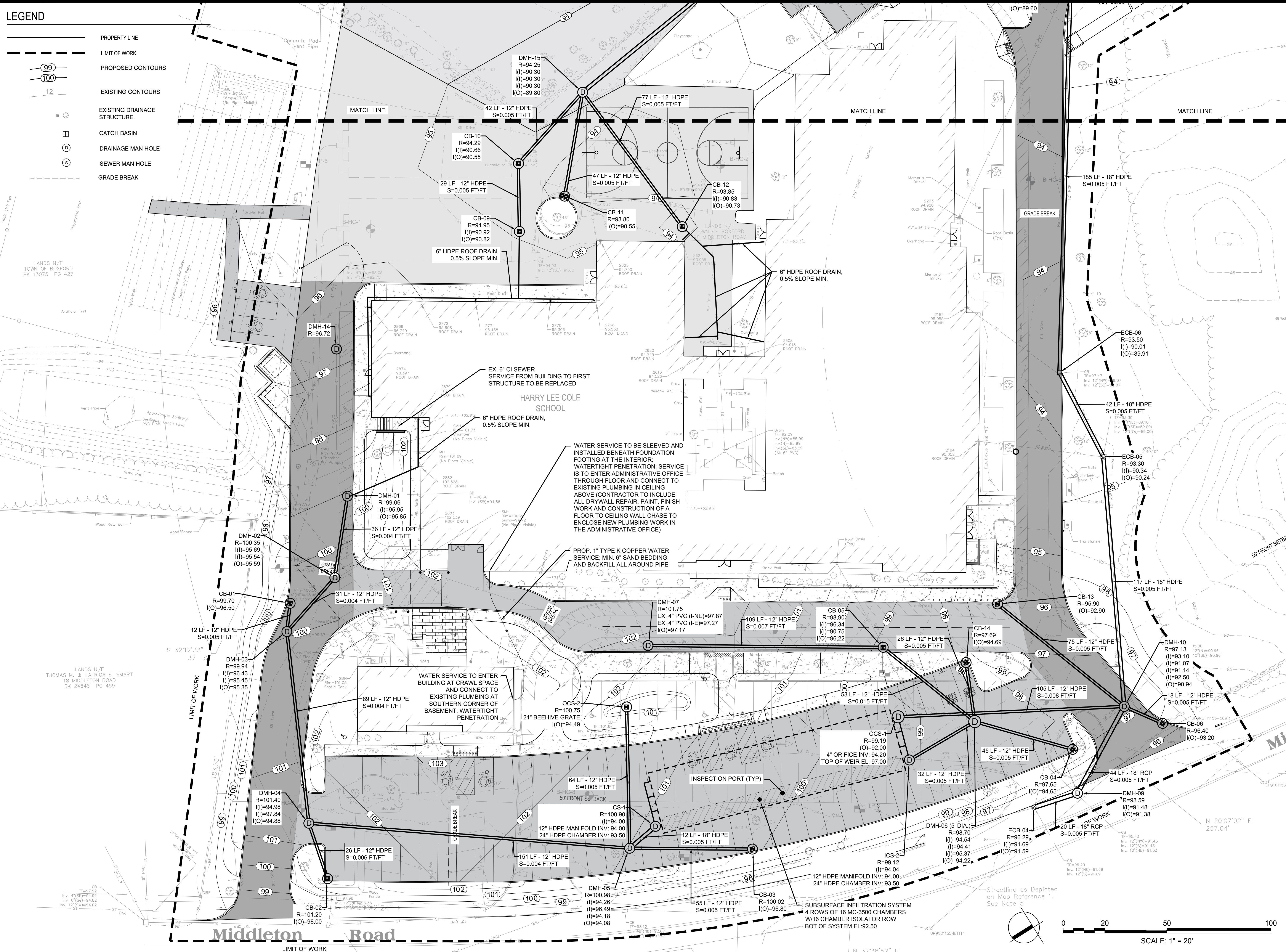
Drawing Title:
DRAINAGE PLAN

Sheet Number:

C133

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- PROPOSED CONTOURS
- EXISTING CONTOURS
- EXISTING DRAINAGE STRUCTURE
- CATCH BASIN
- DRAINAGE MAN HOLE
- SEWER MAN HOLE
- GRADE BREAK



Project:
BOXFORD PUBLIC SCHOOLS SITE RENOVATION PROJECT



HARRY LEE COLE SCHOOL
 26 AND 28 MIDDLETON ROAD
 BOXFORD, MA 01921

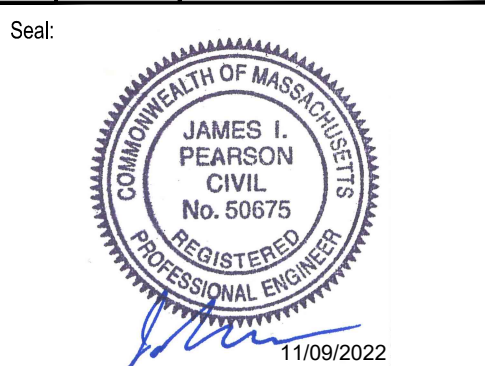


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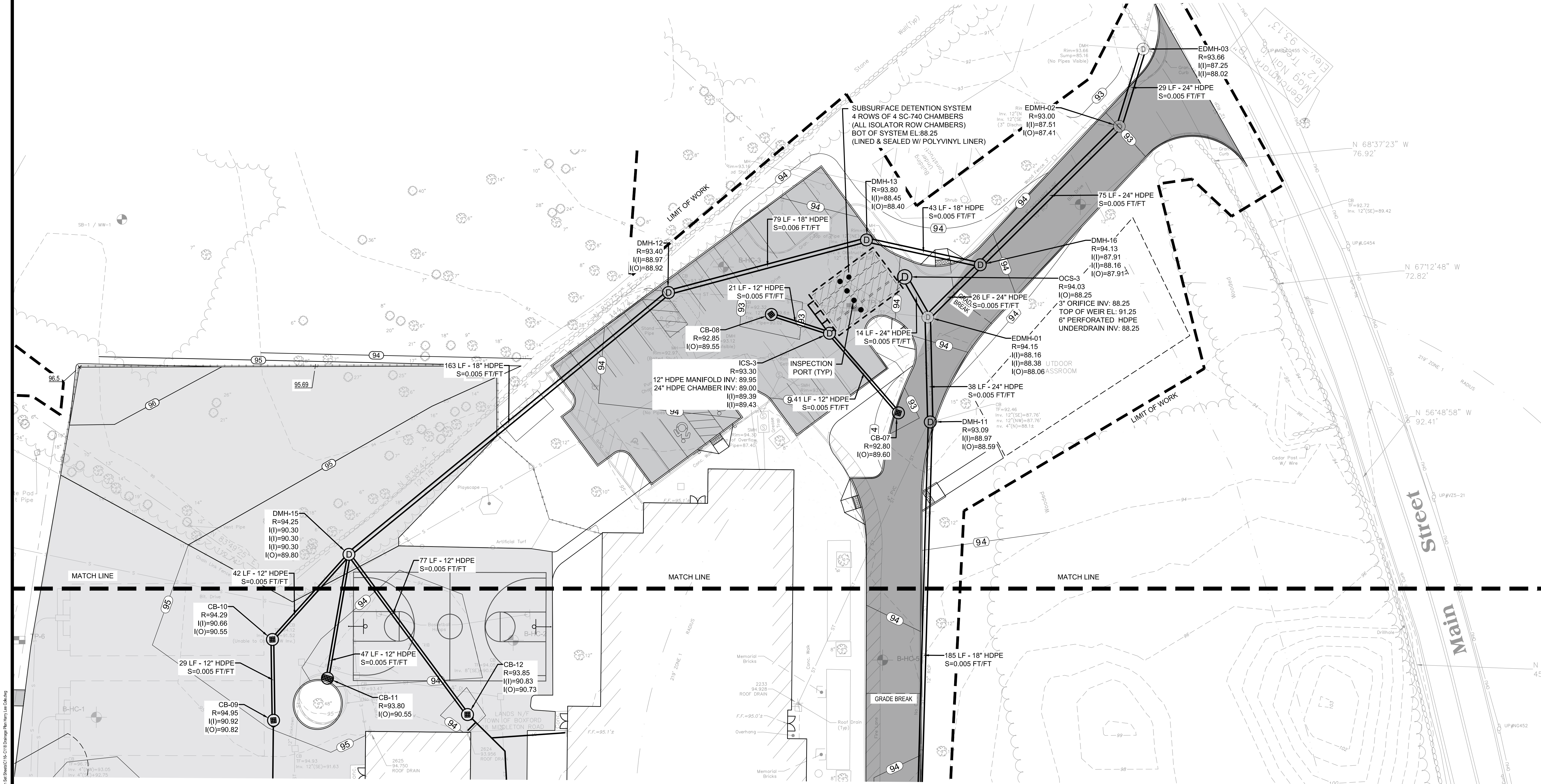
W&S Project No.: ENG20-0865
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Drawing Title:
DRAINAGE ENLARGEMENT PLAN

Sheet Number:
C134

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- (99) PROPOSED CONTOURS
- (100) EXISTING CONTOURS
- 12 EXISTING CONTOURS
- ⊙ EXISTING DRAINAGE STRUCTURE
- ⊞ CATCH BASIN
- ⊙ DRAINAGE MAN HOLE
- ⊙ SEWER MAN HOLE
- - - GRADE BREAK



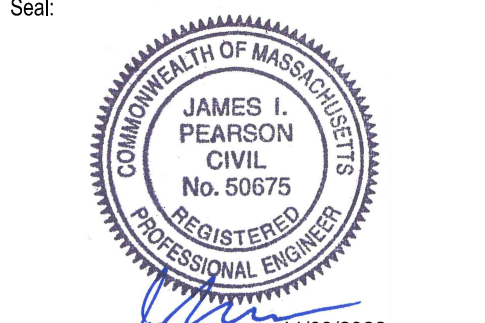
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 JAMES I. PEARSON
 CIVIL
 No. 50675
 REGISTERED PROFESSIONAL ENGINEER
 11/09/2022

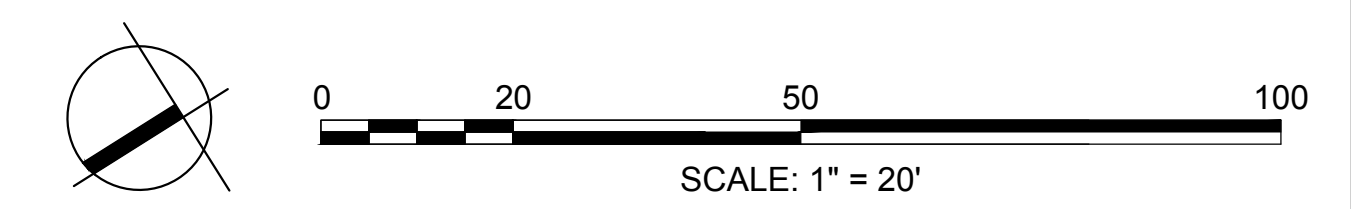
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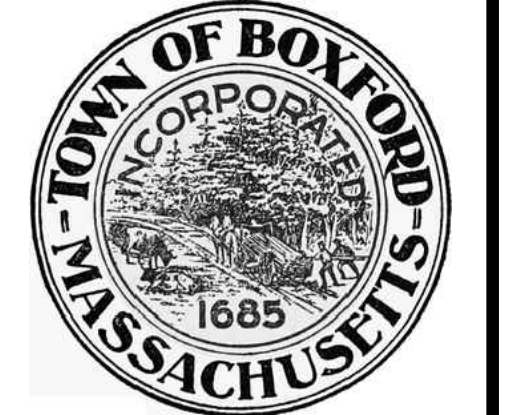
W&S Project No.: ENG20-0865
 W&S File No.:

Drawing Title:
DRAINAGE ENLARGEMENT PLAN

Sheet Number:
C135



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W&S Project No.: ENG20-0865
W&S File No.:

Drawing Title:
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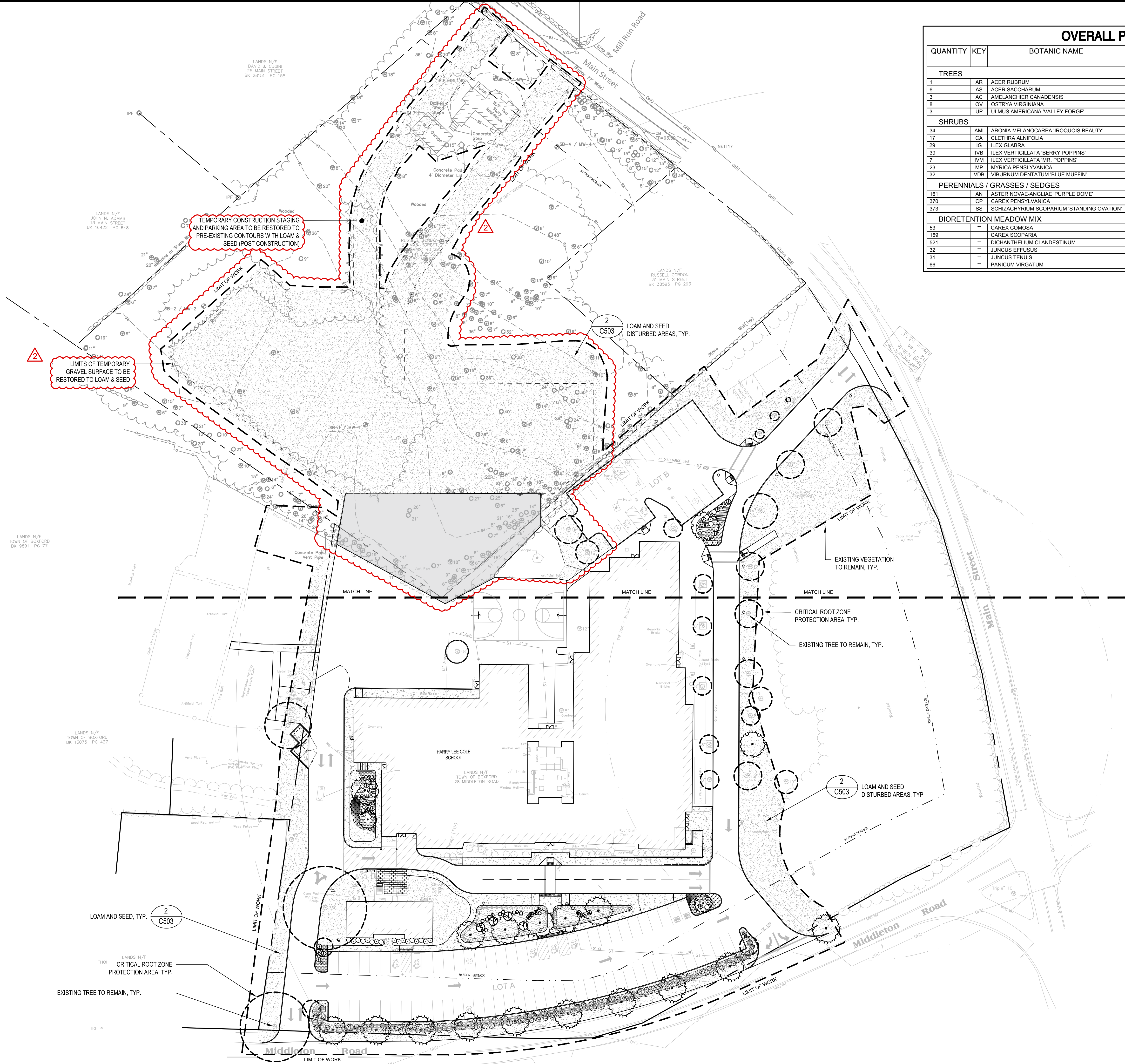
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OVERALL PLANTING SCHEDULE

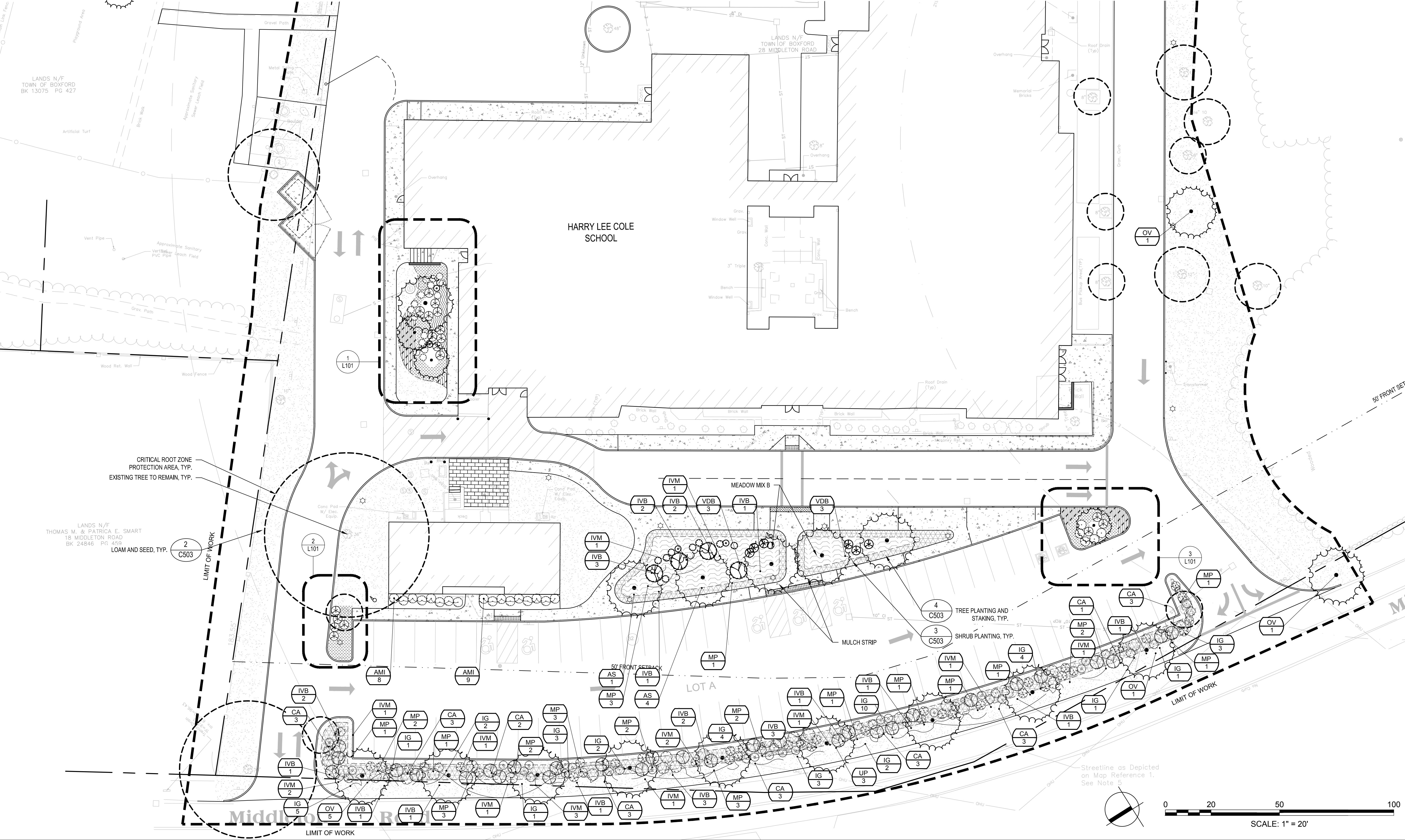
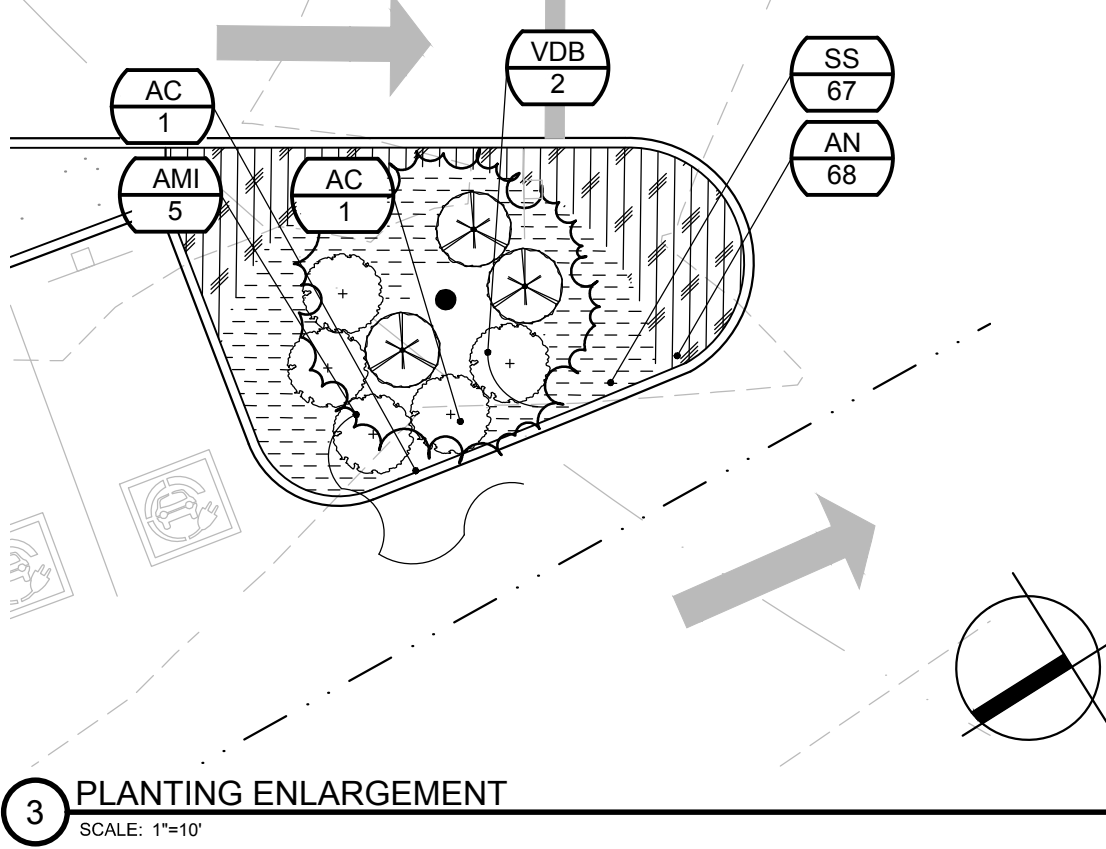
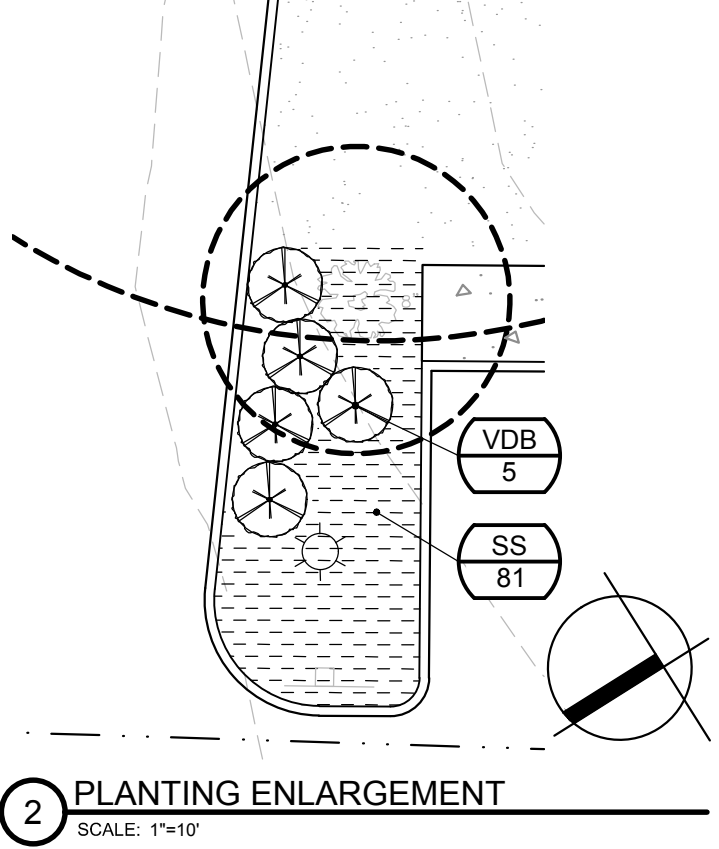
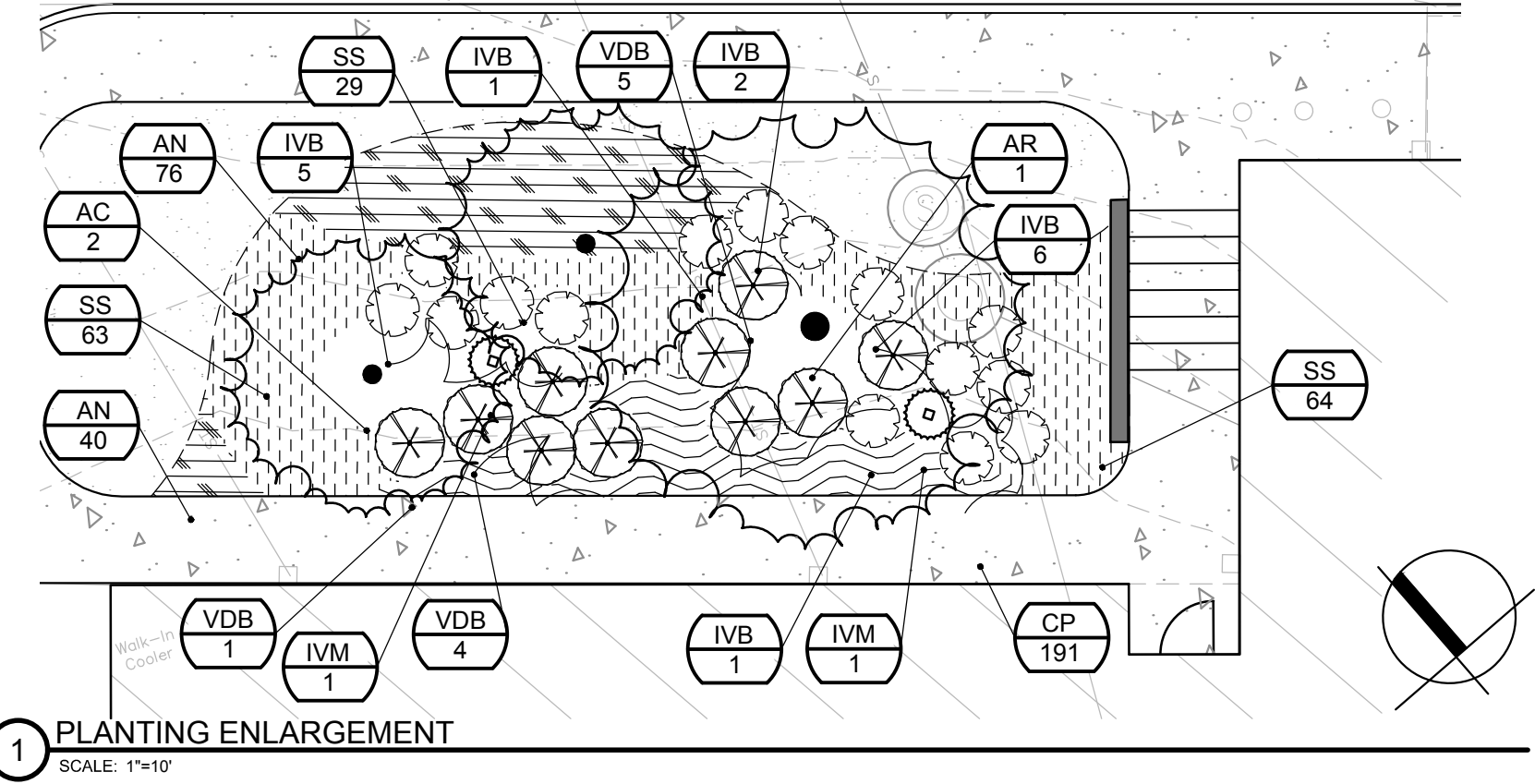
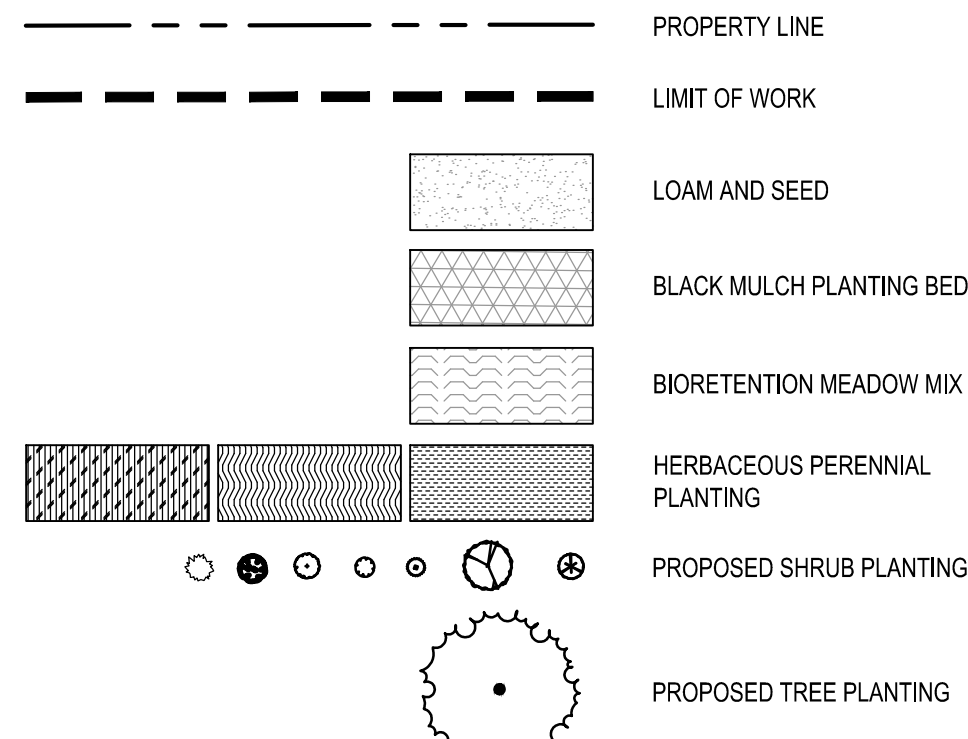
QUANTITY	KEY	BOTANIC NAME	COMMON NAME	SIZE	NOTES
TREES					
1	AR	ACER RUBRUM	RED MAPLE	2-2.5" CAL.	---
6	AS	ACER SACCHARUM	SUGAR MAPLE	2-2.5" CAL.	---
3	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	10-12 HEIGHT	MULTI-STEM
8	OV	OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	2-2.5" CAL.	---
3	UP	ULMUS AMERICANA 'VALLEY FORGE'	AMERICAN ELM	2-2.5" CAL.	---
SHRUBS					
34	AM	ARONIA MELANOCARPA 'IROQUOIS BEAUTY'	BLACK CHOKEBERRY	#3 CONTAINER	3-4' HEIGHT MIN.
17	CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	10 GALLON	3-4' HEIGHT MIN.
29	IG	ILEX GLABRA	INKBERRY	10 GALLON	3-4' HEIGHT MIN.
39	IVB	ILEX VERTICILLATA 'BERRY POPPINS'	WINTERBERRY HOLLY	B&B, 3-4 HT.	3-4' HEIGHT, FEMALE CULTIVAR
17	IVM	ILEX VERTICILLATA 'MR. POPPINS'	WINTERBERRY HOLLY	B&B, 3-4 HT.	3-4' HEIGHT, MALE CULTIVAR
23	MP	MYRICA PENNSYLVANICA	BAYBERRY	B&B, 3-4 HT.	3-4' HEIGHT MIN.
32	YVB	VIBURNUM DENTATUM 'BLUE MUFFIN'	ARROWWOOD VIBURNUM	#3 CONTAINER	3-4' HEIGHT MIN.
PERENNIALS / GRASSES / SEDGES					
181	AN	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER	#1 CONTAINER	SPACE 18" O.C.
370	CP	CAREX PENNSYLVANICA	OAK SEDGE	#1 CONTAINER	SPACE 12" O.C.
373	SS	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION'	LITTLE BLUESTEM	#1 CONTAINER	SPACE 18" O.C.
BIORETENTION MEADOW MIX					
53	--	CAREX COMOSA	COSMOS SEDGE	--	PLUG, SPACE 12" O.C.
159	--	CAREX SCOPARIA	BLUNT BROOM SEDGE	--	PLUG, SPACE 12" O.C.
521	--	DICHANTHELIUM CLANDESTINUM	DEERTONGUE GRASS	--	PLUG, SPACE 12" O.C.
32	--	JUNCUS EFFUSUS	SLENDER RUSH	--	PLUG, SPACE 12" O.C.
31	--	JUNCUS TENUIS	SOFT RUSH	--	PLUG, SPACE 12" O.C.
166	--	PANICUM VIRGATUM	SWITCHGRASS	--	PLUG, SPACE 24" O.C.

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- LOAM AND SEED
- BLACK MULCH PLANTING BED
- BIORETENTION MEADOW MIX
- HERBACEOUS PERENNIAL PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED TREE PLANTING



LEGEND



Project:
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HARRY LEE COLE SCHOOL
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2	11/09/22	REV PER CON COM

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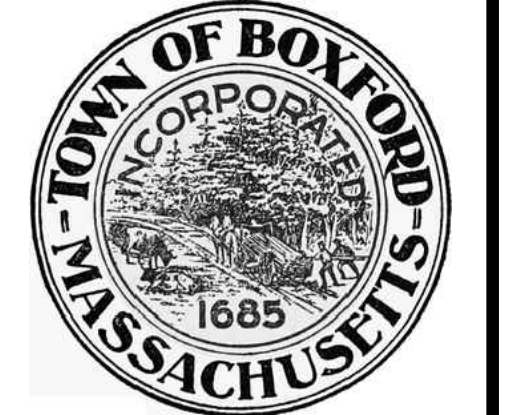
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Date: MAY 6, 2022
Drawn By: EJA
Reviewed By: CB
Approved By: JIP
W&S Project No.: ENG20-0865
W&S File No.:

Drawing Title:
PLANTING ENLARGEMENT PLAN

Sheet Number:
L101

Rev. 18 Date: 10/24/2019

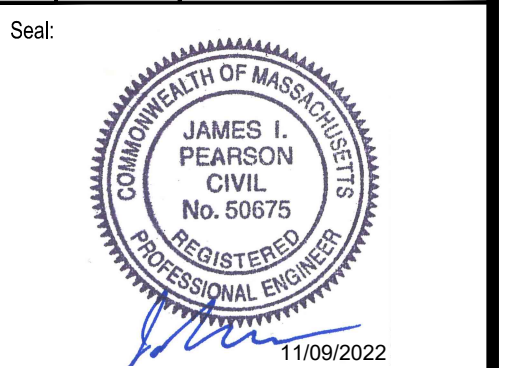
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Consultants:

Revisions:

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1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM



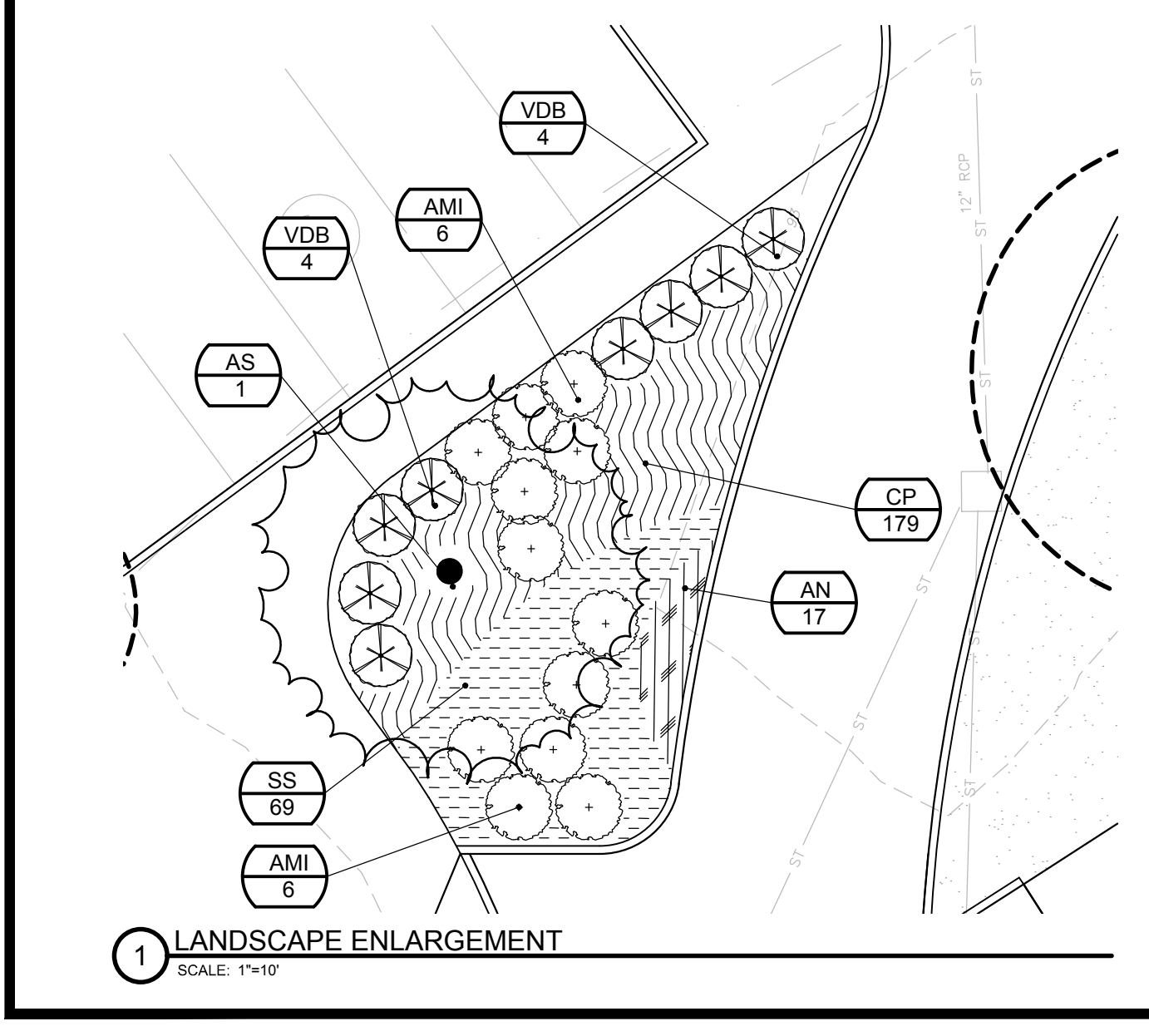
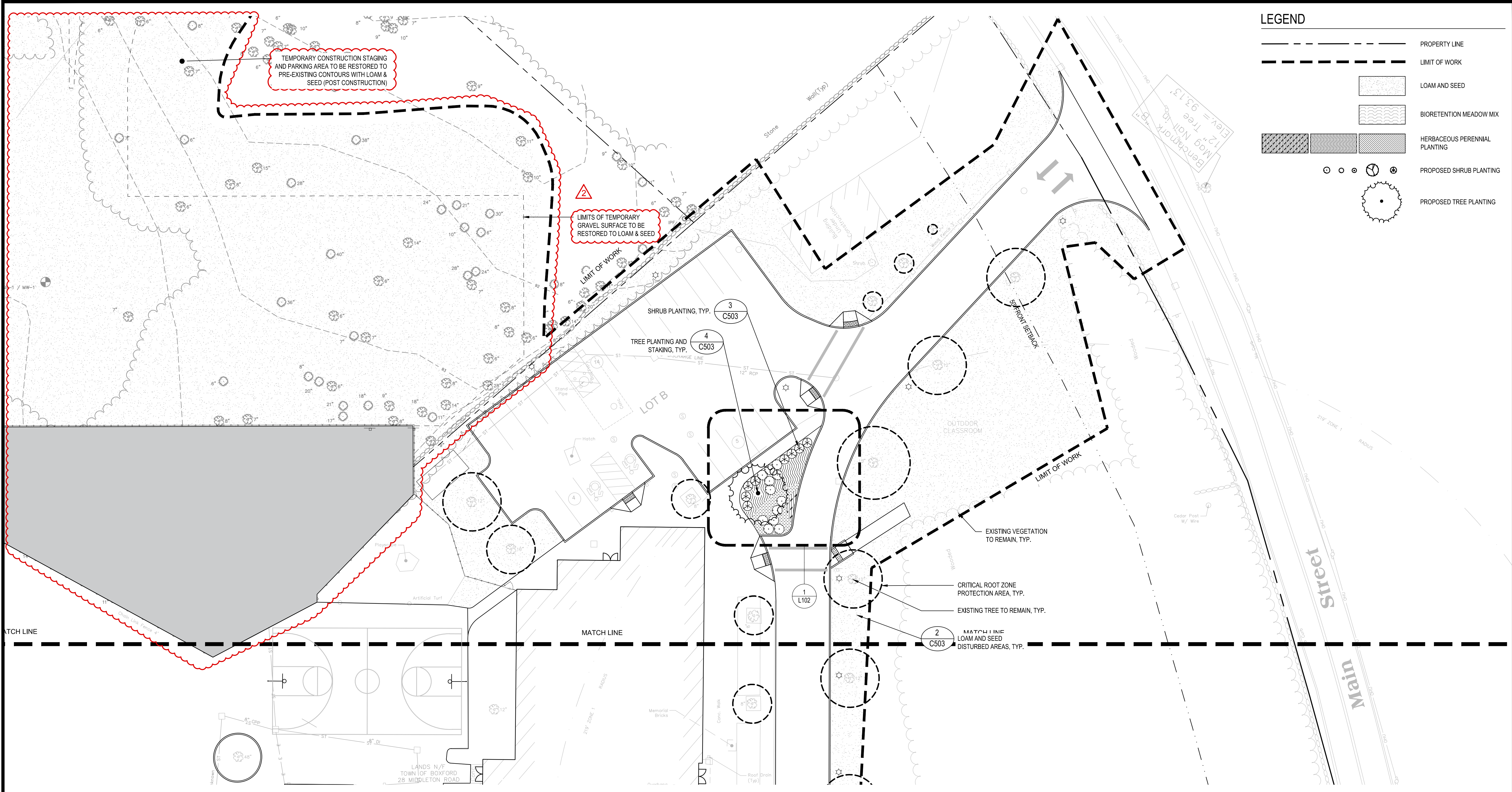
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Scale: AS SHOWN
 Date: MAY 6, 2022
 Drawn By: EJA
 Reviewed By: CB
 Approved By: JJP
 W&S Project No.: ENG20-0865
 W&S File No.:

Drawing Title:
**PLANTING
 ENLARGEMENT
 PLAN**
 Sheet Number:
L102

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- LOAM AND SEED
- BIORETENTION MEADOW MIX
- HERBACEOUS PERENNIAL PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED TREE PLANTING



W&S Project No.: ENG20-0865; Date Issued: 10/06/22; Drawing Title: PLANTING ENLARGEMENT PLAN; Scale: 1"=20';
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 W&S File No.: ENG20-0865; Date Issued: 10/06/22; Drawing Title: PLANTING ENLARGEMENT PLAN; Scale: 1"=20';

Rev: 18 Date: 10/24/2019

Consultants:

Revisions:

No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM

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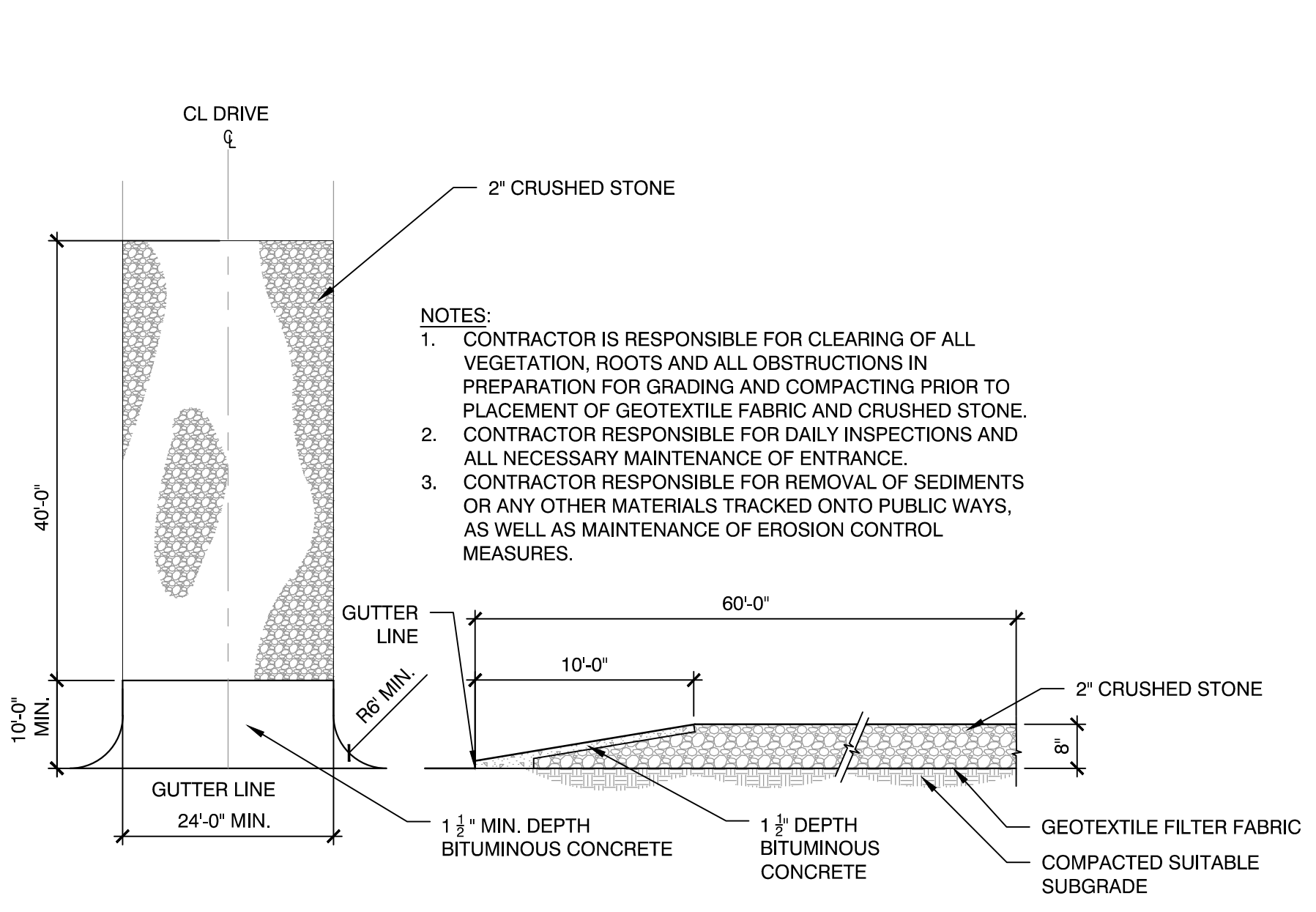
JAMES I. PEARSON
CIVIL
No. 50675
REGISTERED
PROFESSIONAL ENGINEER
11/09/2022

Issued For:

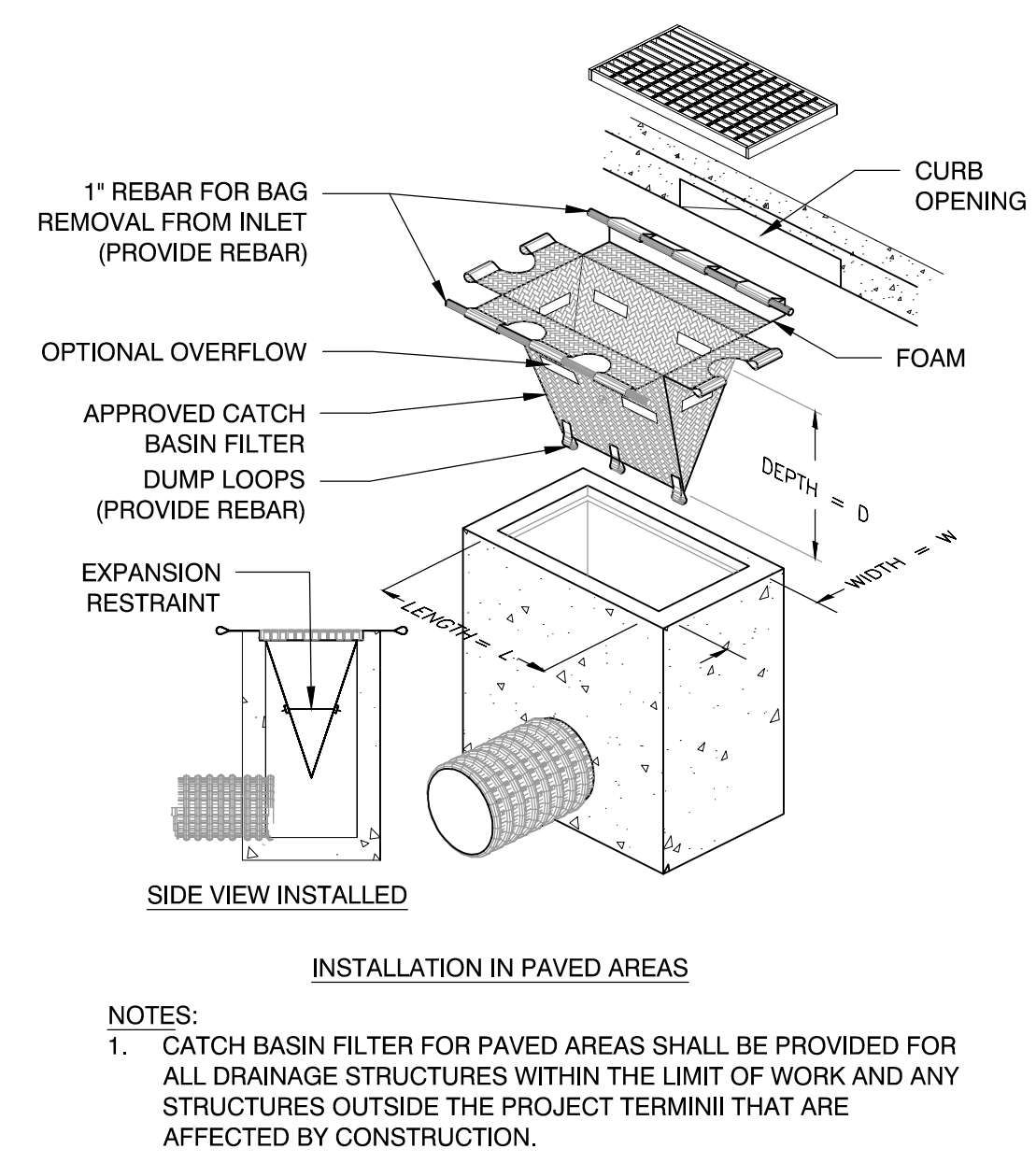
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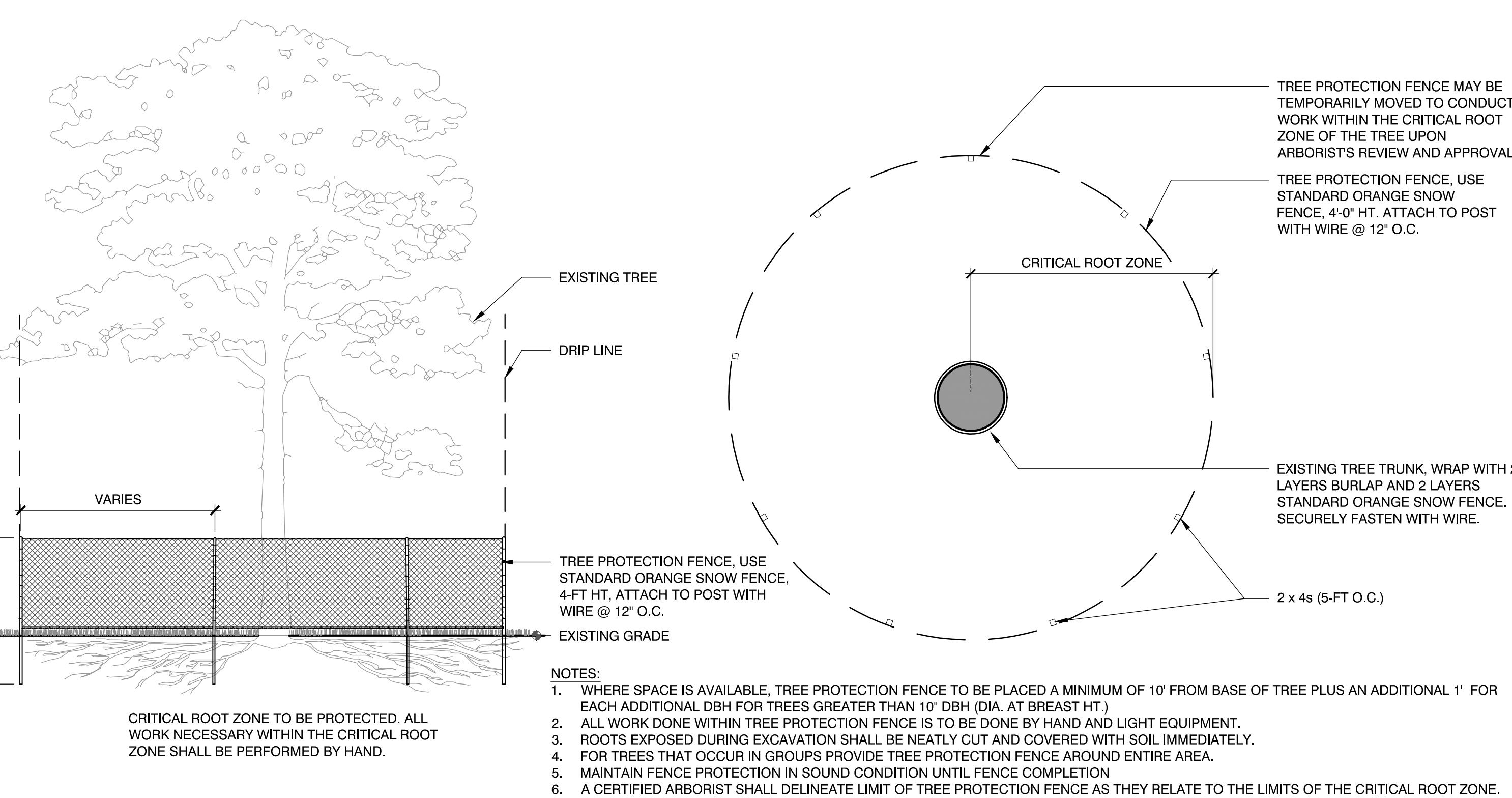
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**SITE
CONSTRUCTION
DETAILS**
Sheet Number:
C500



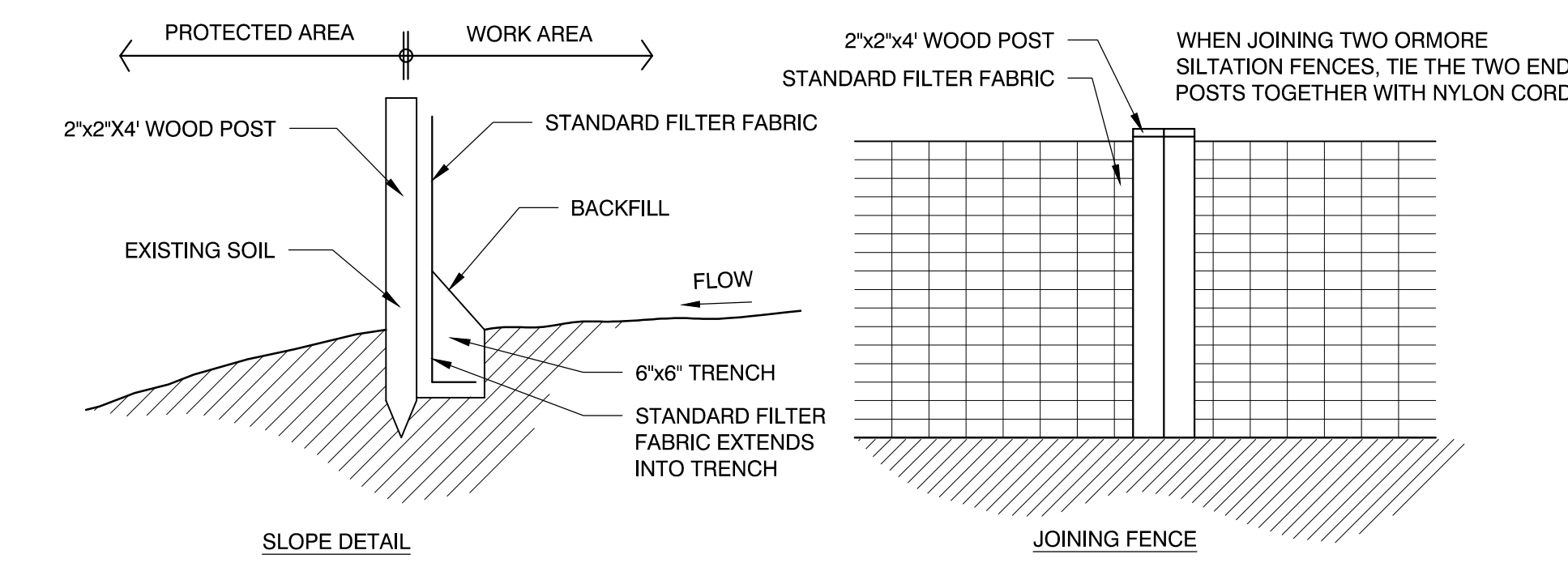
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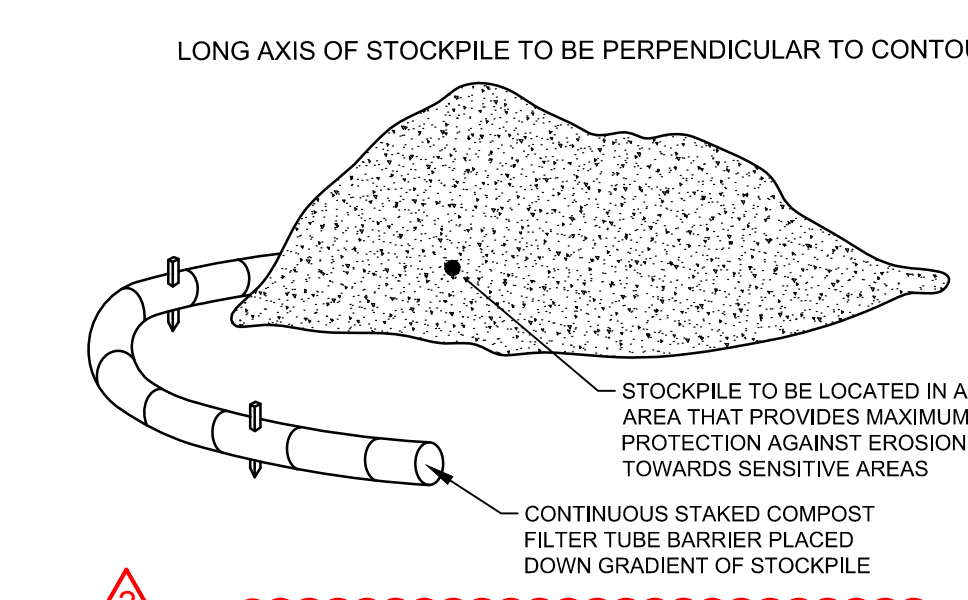
2 INLET SEDIMENT CONTROL
SCALE: N.T.S.



4 TREE PROTECTION FENCE
SCALE: N.T.S.



3 EROSION CONTROL BLANKET
SCALE: N.T.S.



5 INLET SEDIMENT CONTROL
SCALE: N.T.S.

NOTE:
1. PROVIDE PLASTIC SHEETING, EROSION BLANKET, OR GRASS SEEDING OF THE STOCKPILE FOR STOCKPILES THAT ARE EXPECTED TO REMAIN UNDISTURBED IN PLACE FOR THE DURATION OF CONSTRUCTION ACTIVITY.

Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 978.532.1900 www.westonandsampson.com

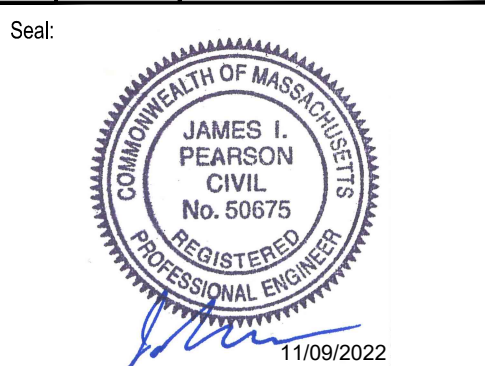
Rev. 1.0 Date: 10/24/2019

Consultants:

No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM

Revisions:

No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM



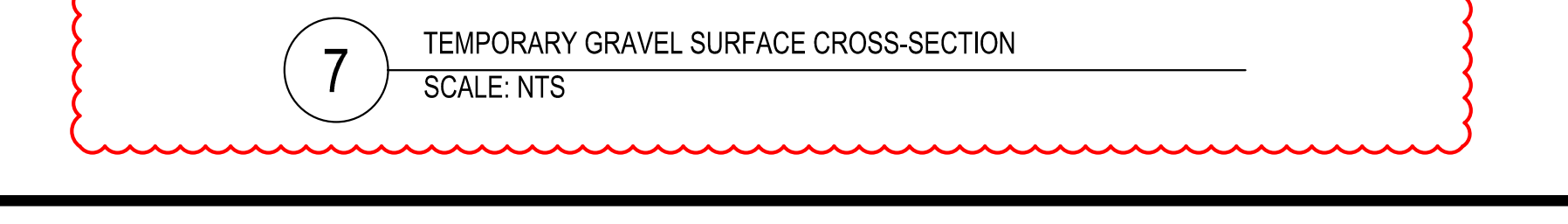
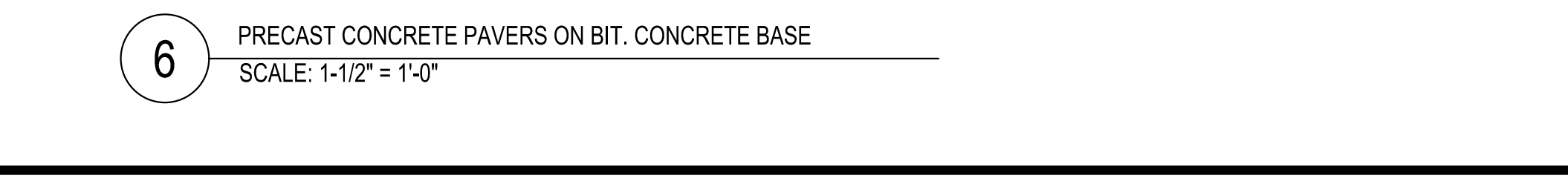
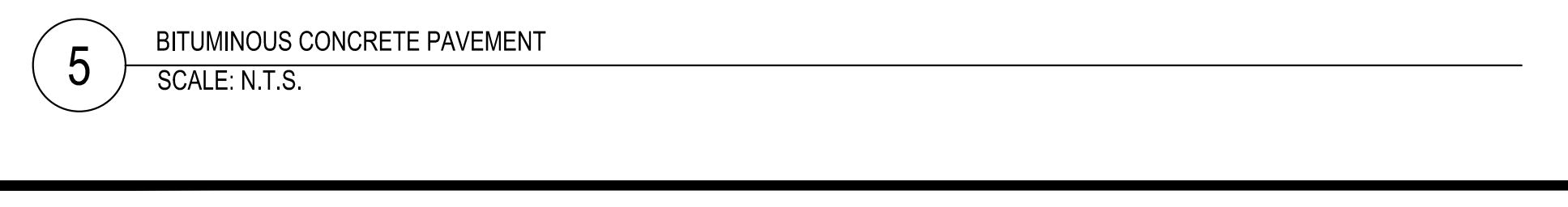
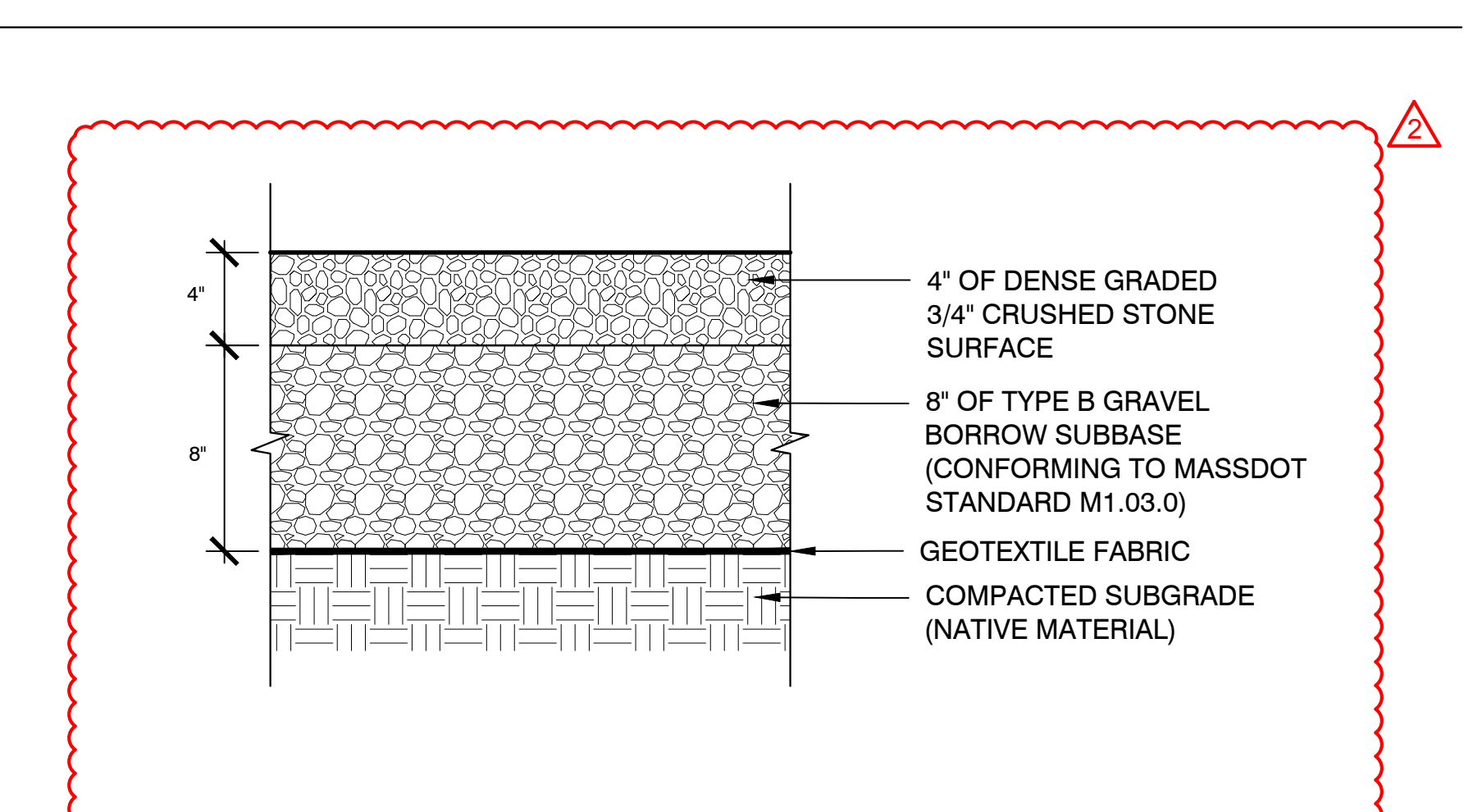
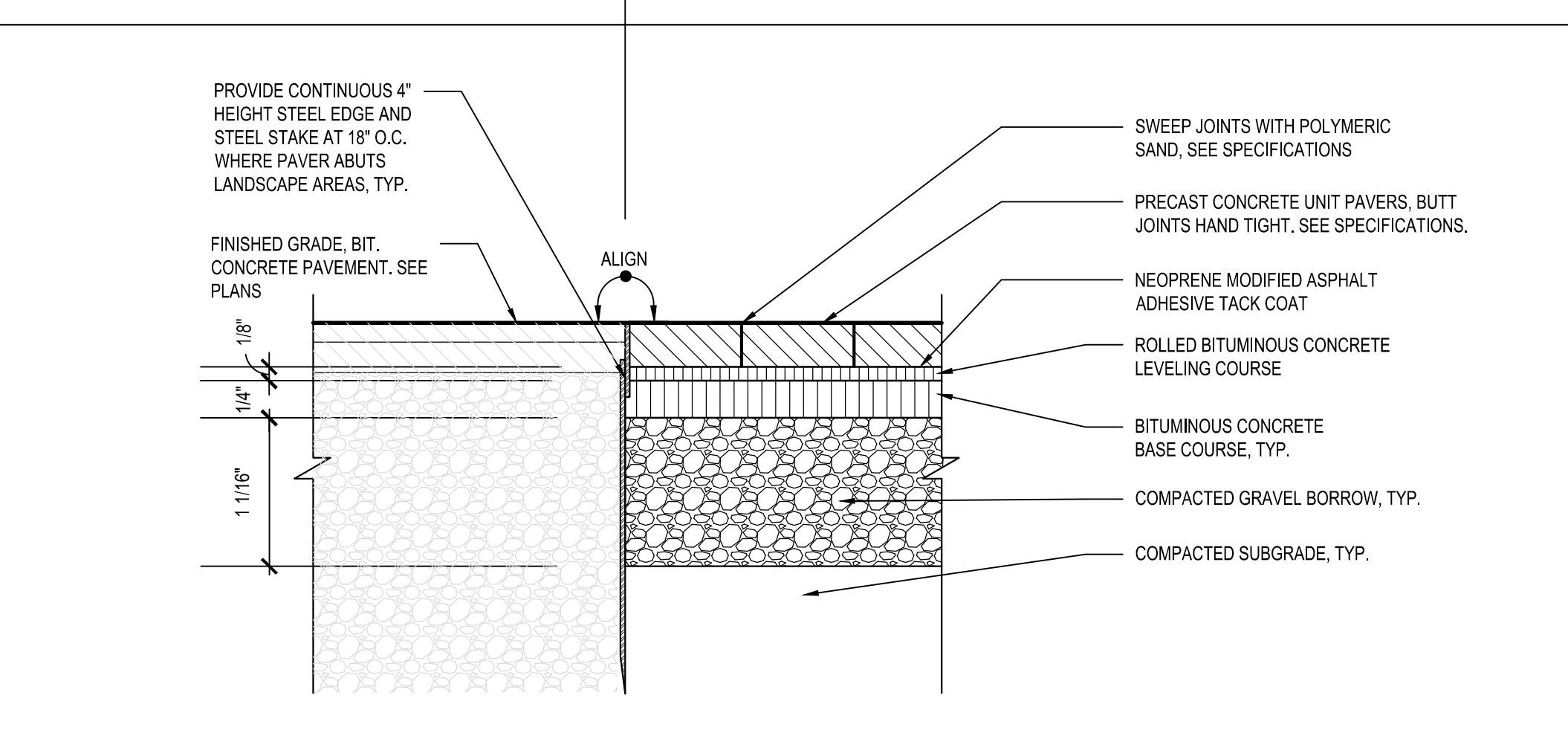
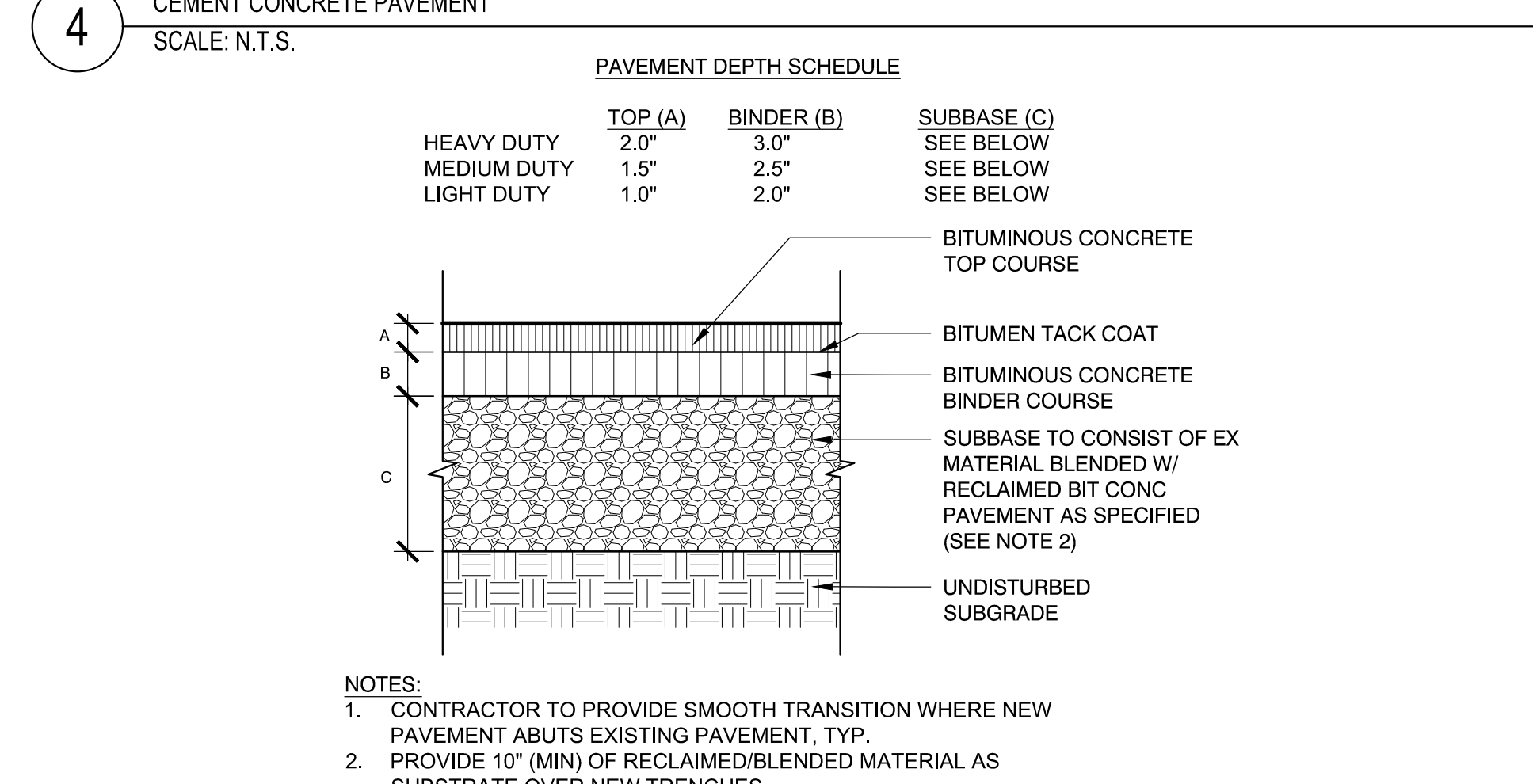
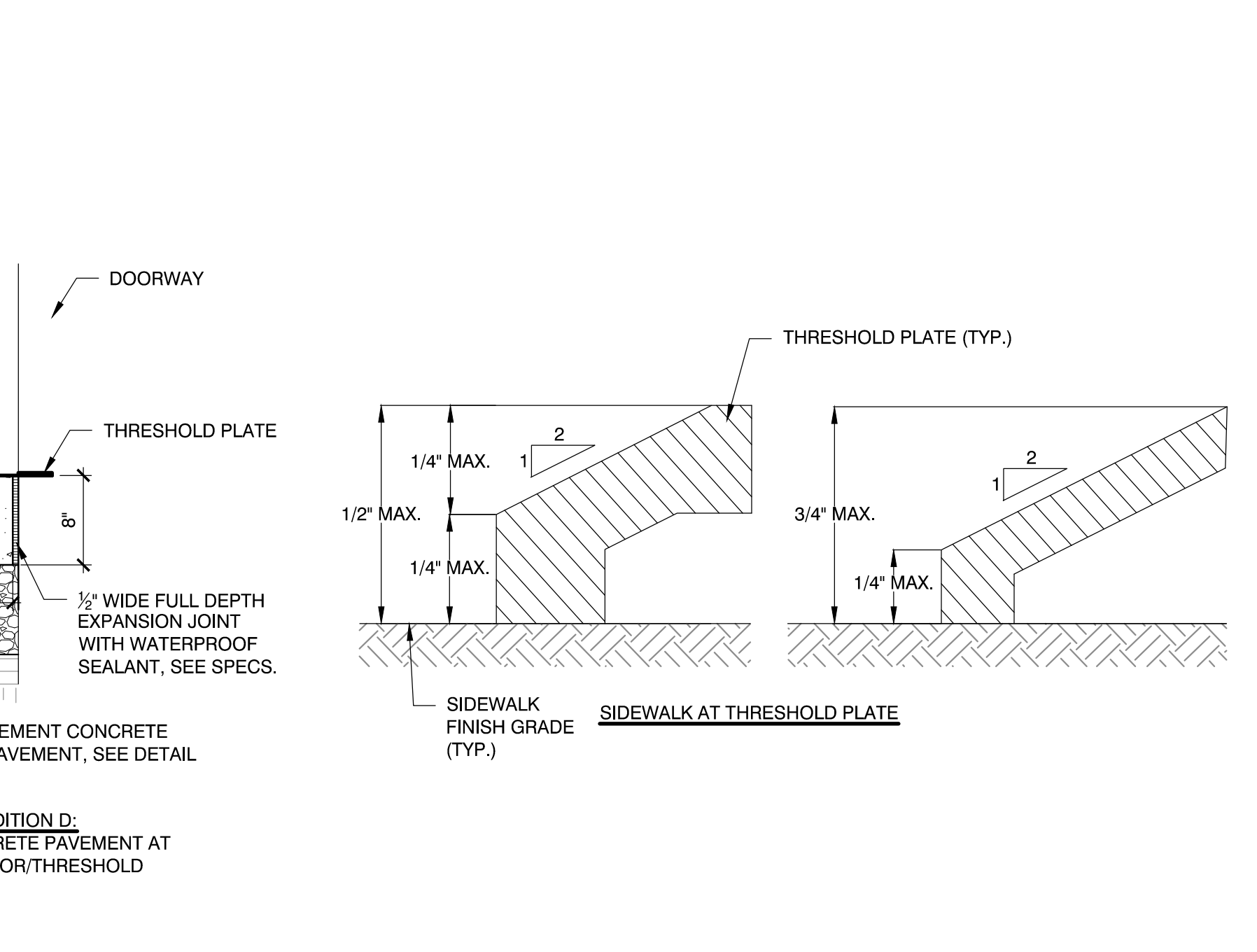
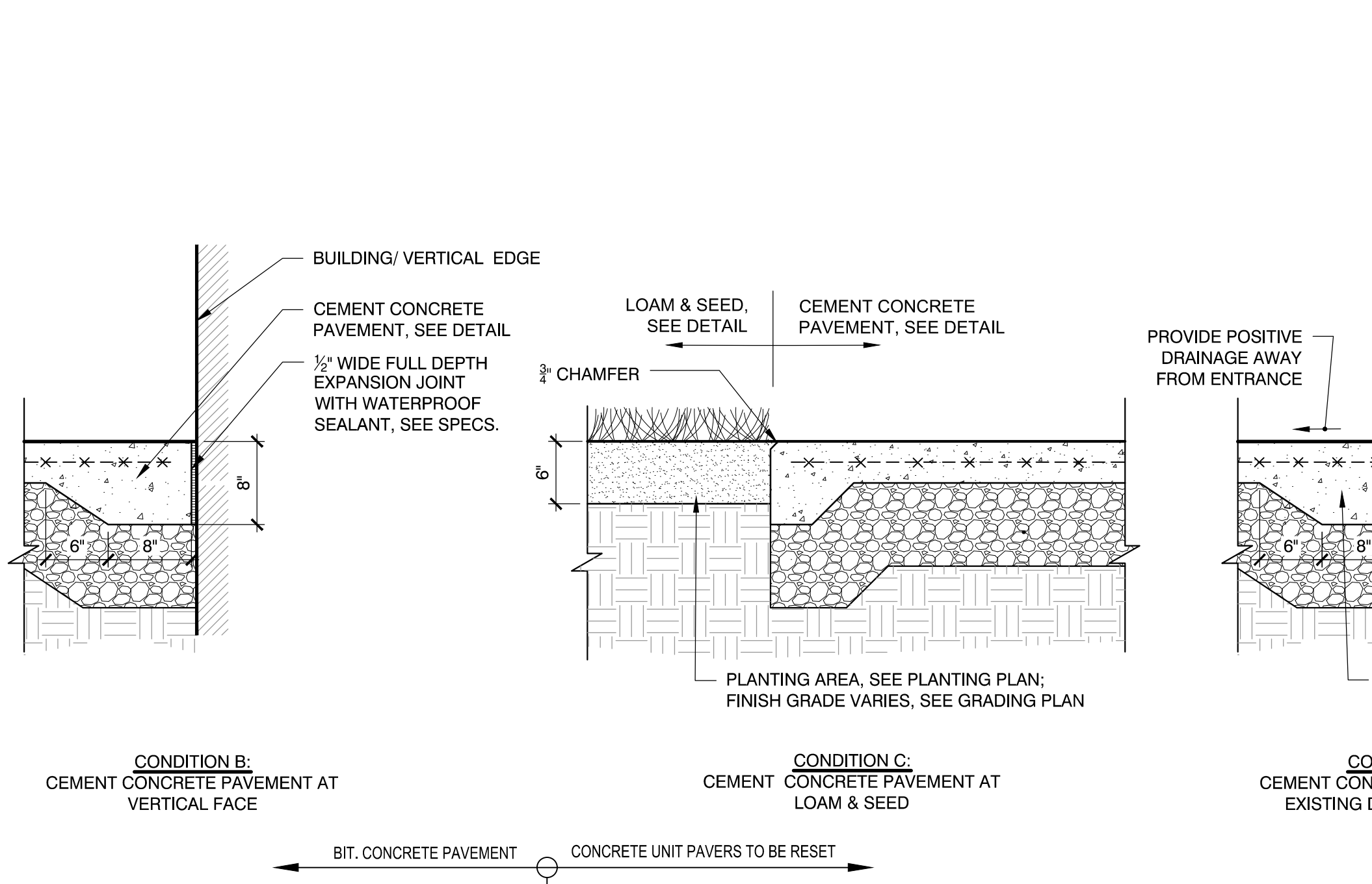
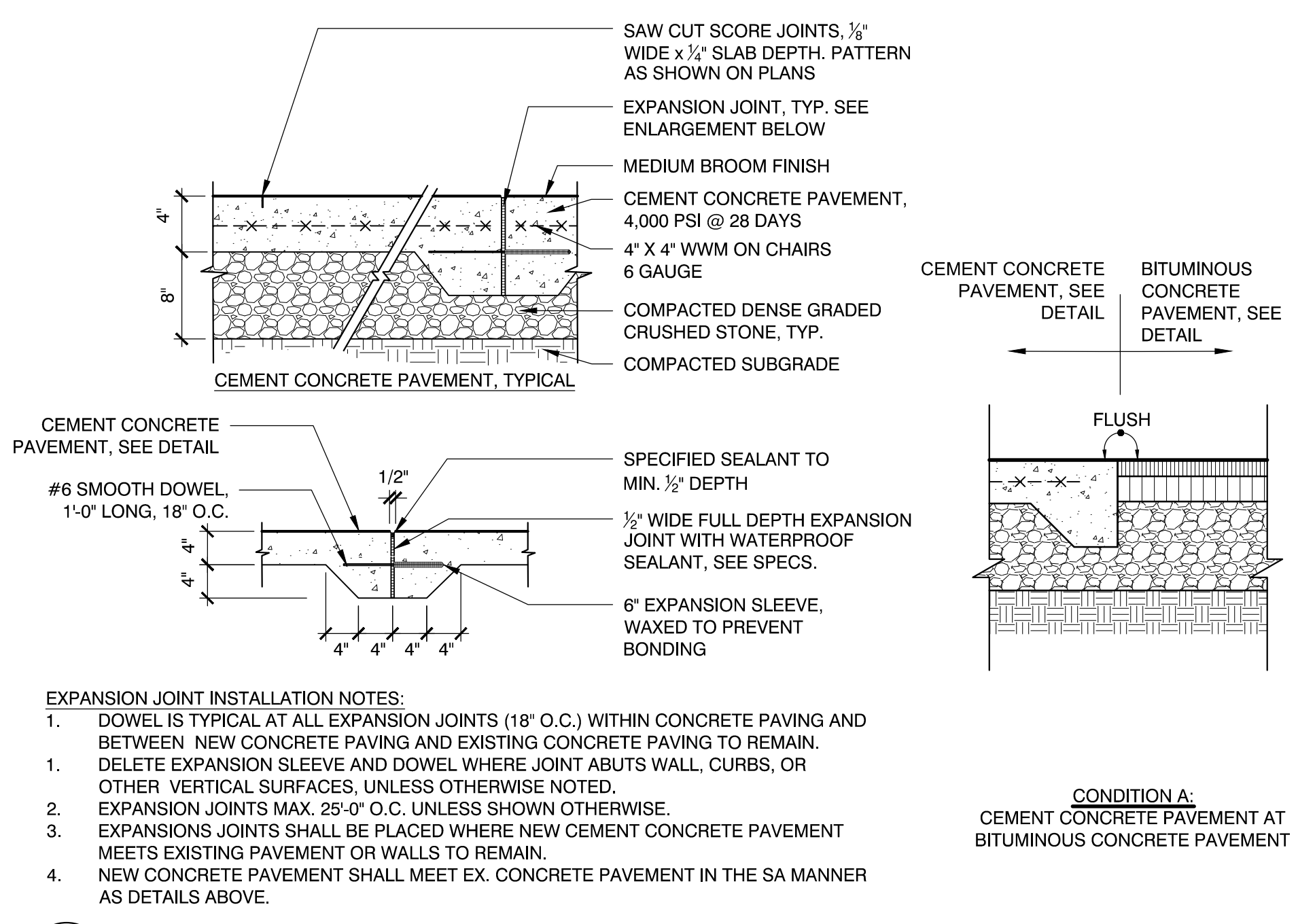
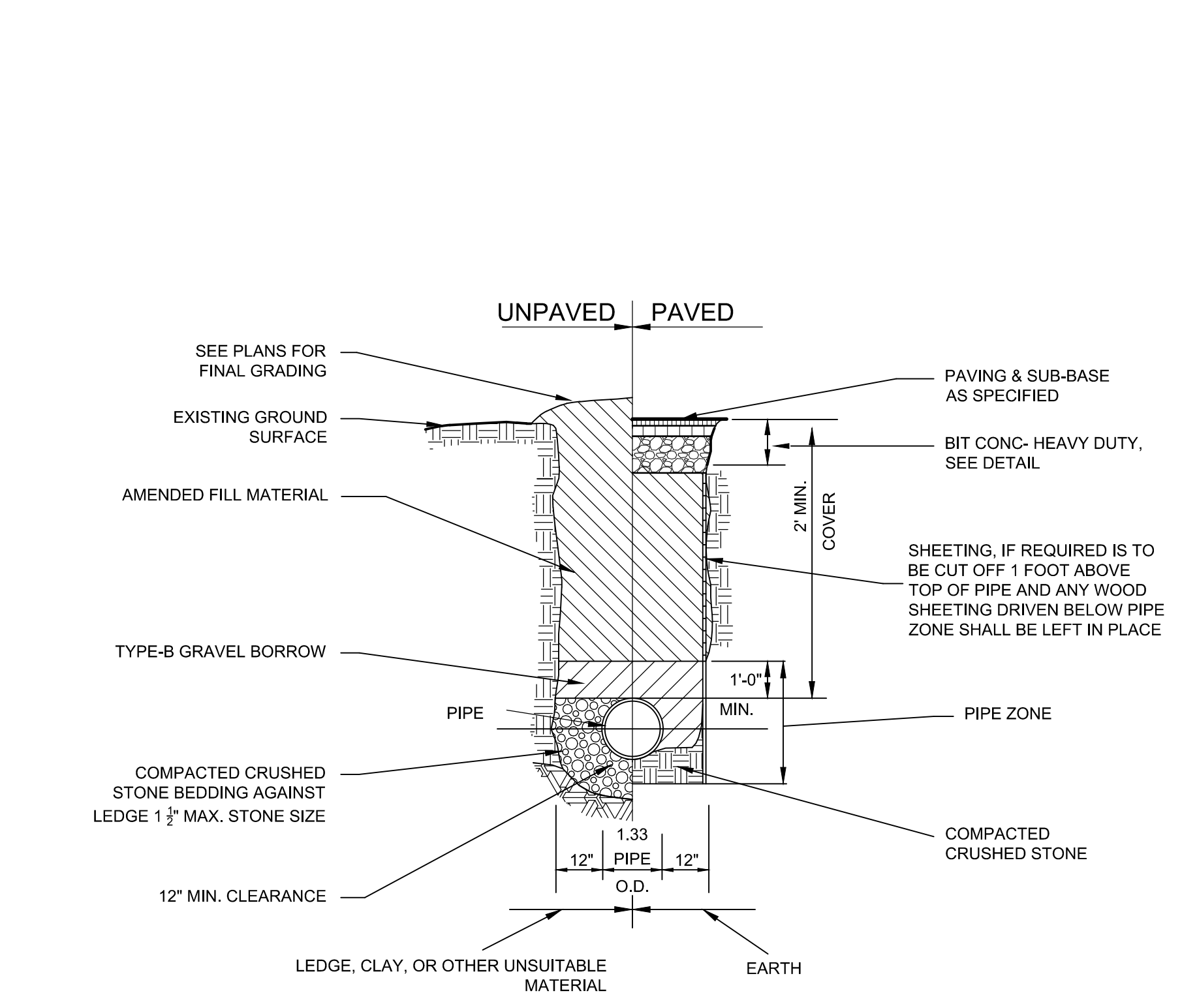
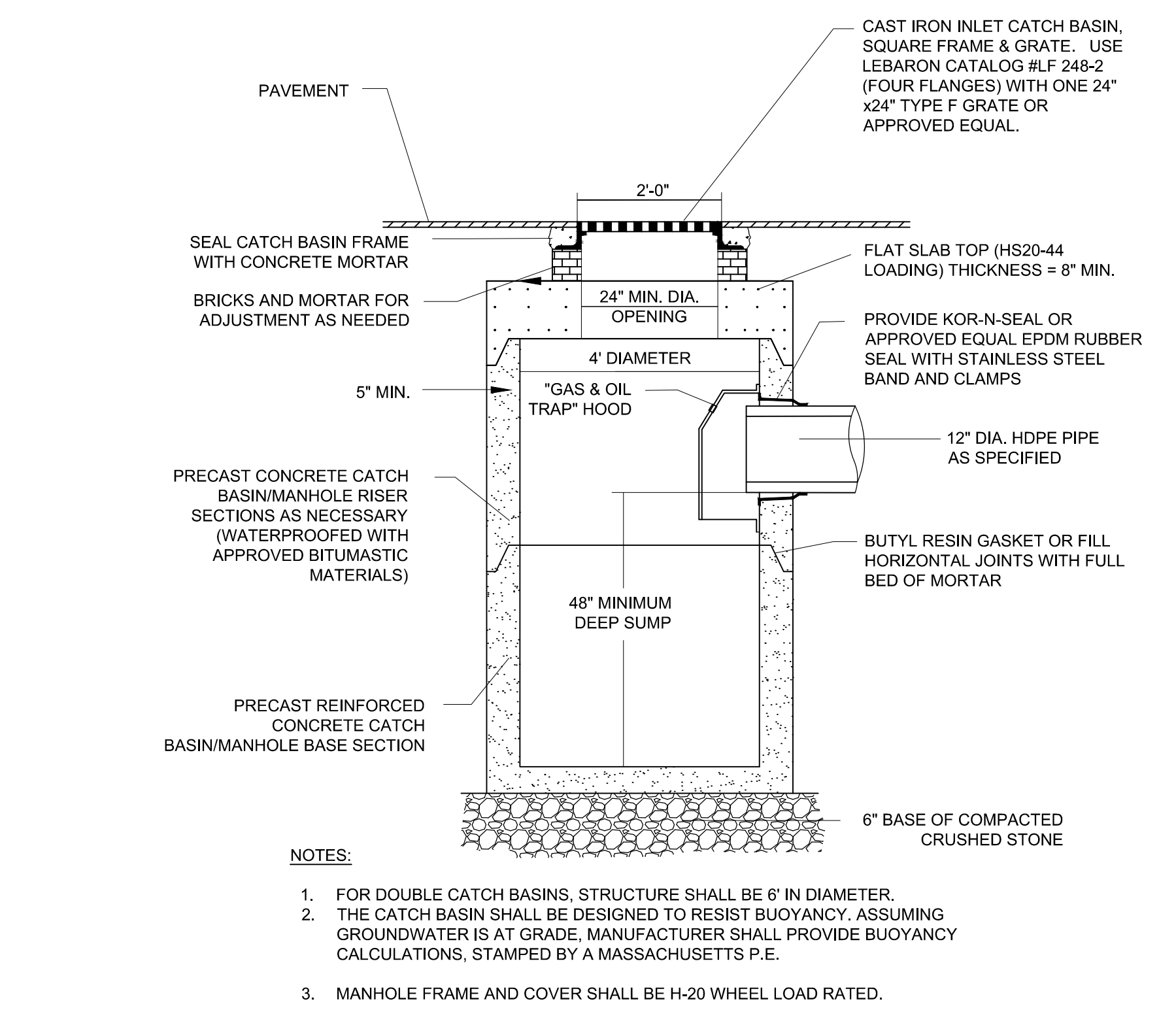
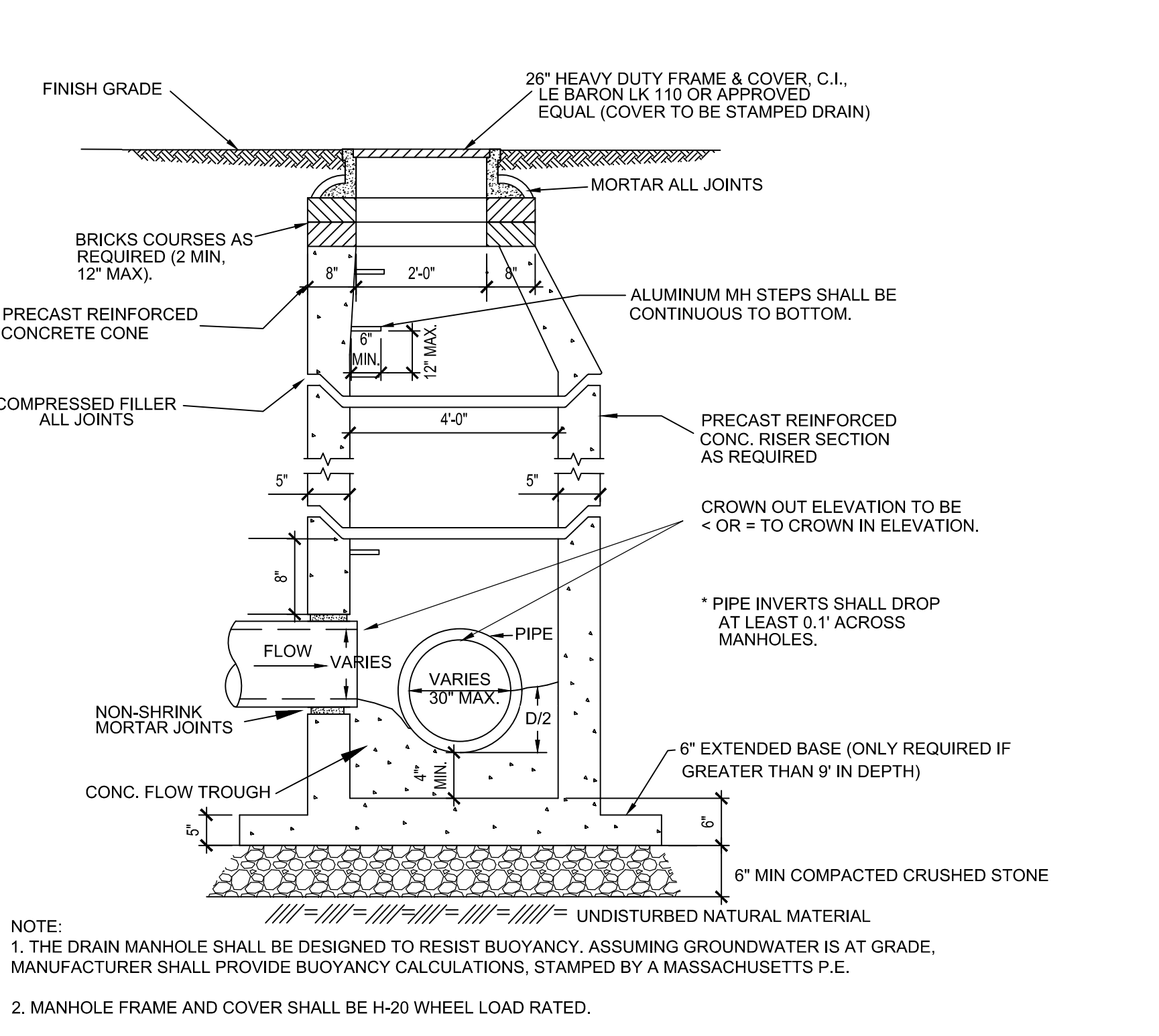
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 Drawn By: EJA
 Reviewed By: CB
 Approved By: JIP

W&S Project No.: ENG20-0865
 W&S File No.:

Drawing Title:
SITE CONSTRUCTION DETAILS

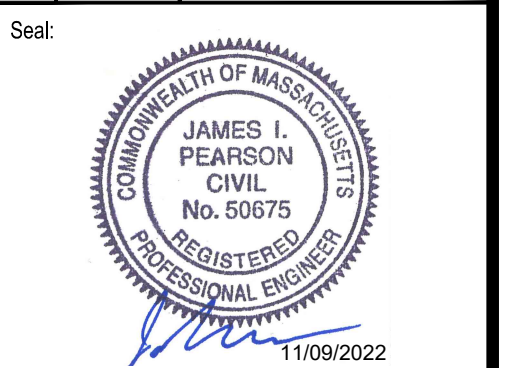
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Revisions:

No.	Date	Description
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2	11/09/22	REV PER CON COM



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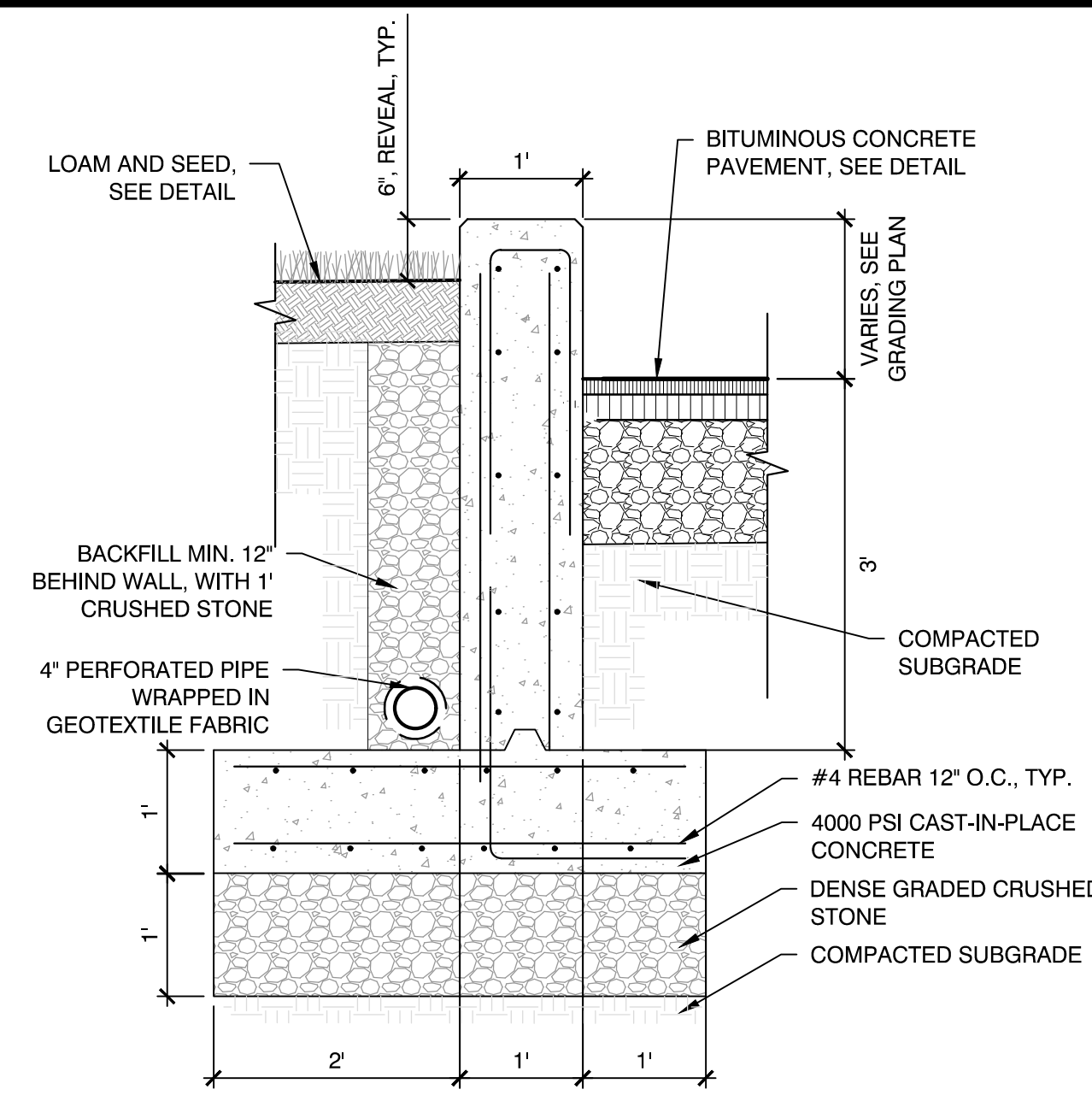
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 Reviewed By: CB
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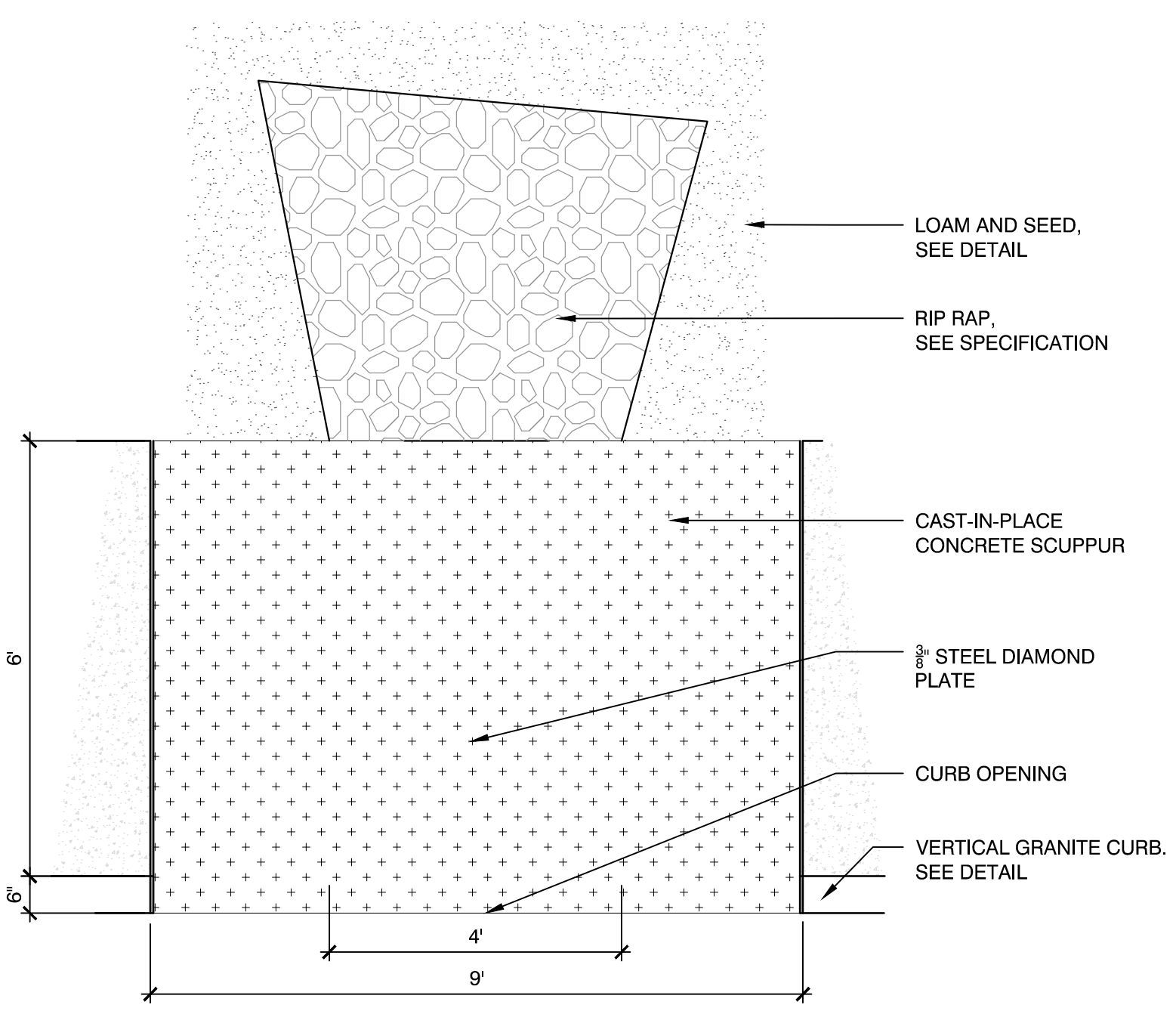
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**SITE
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 DETAILS**

Sheet Number:
C502

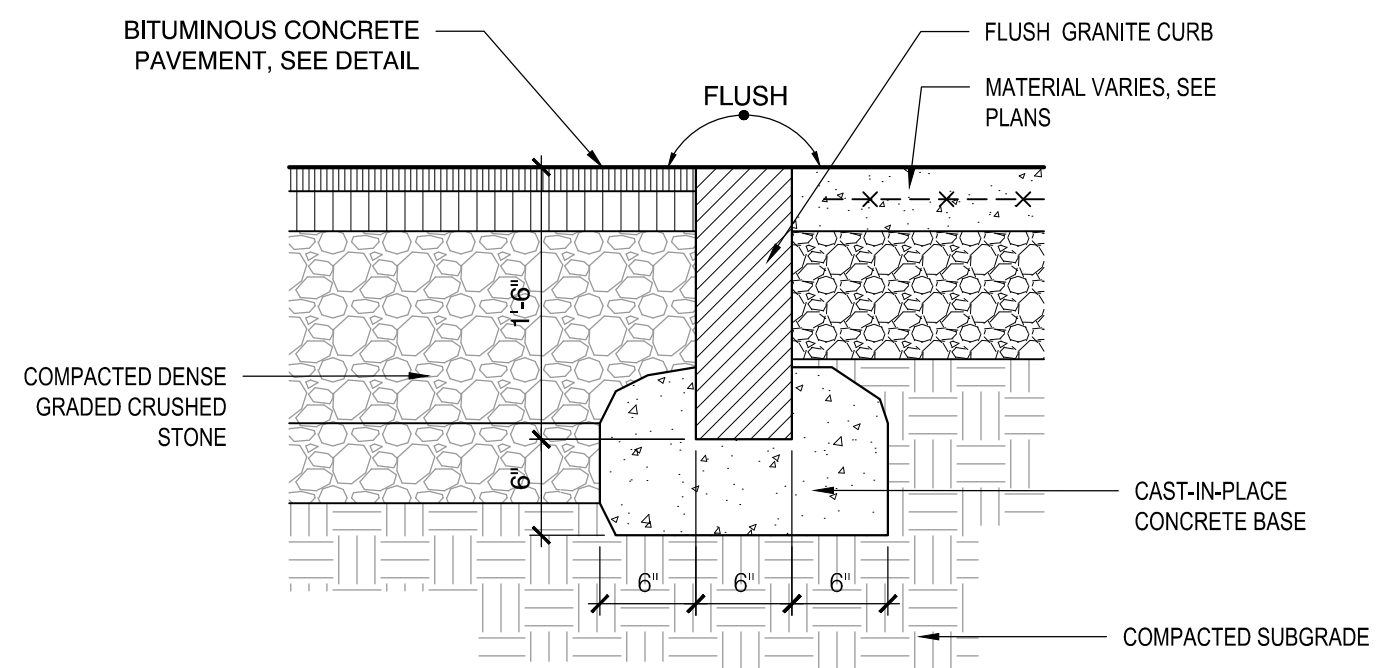
Rev. 18 Date: 10/24/2019



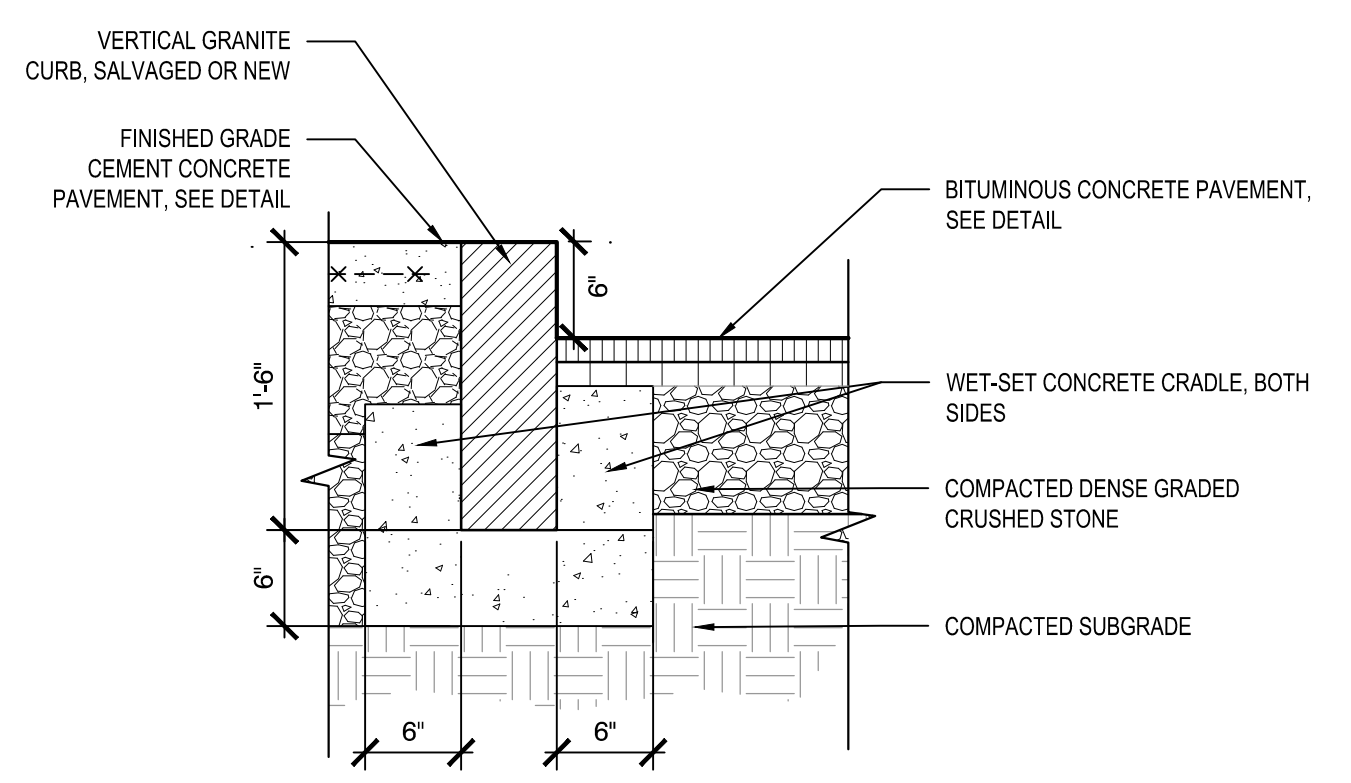
2 CONCRETE RETAINING WALL
 SCALE: N.T.S.



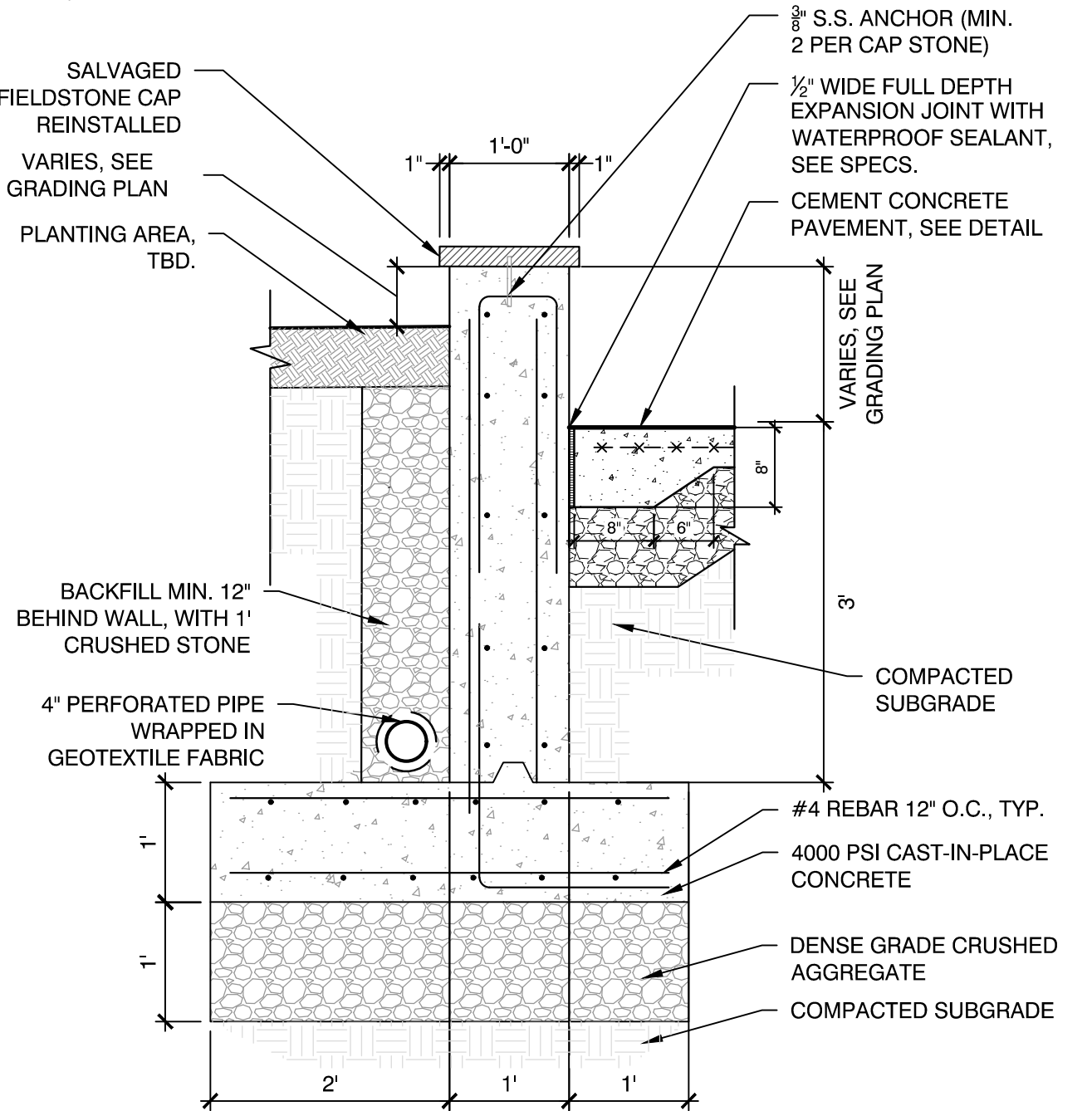
1 SIDEWALK SCUPPER
 SCALE: N.T.S.



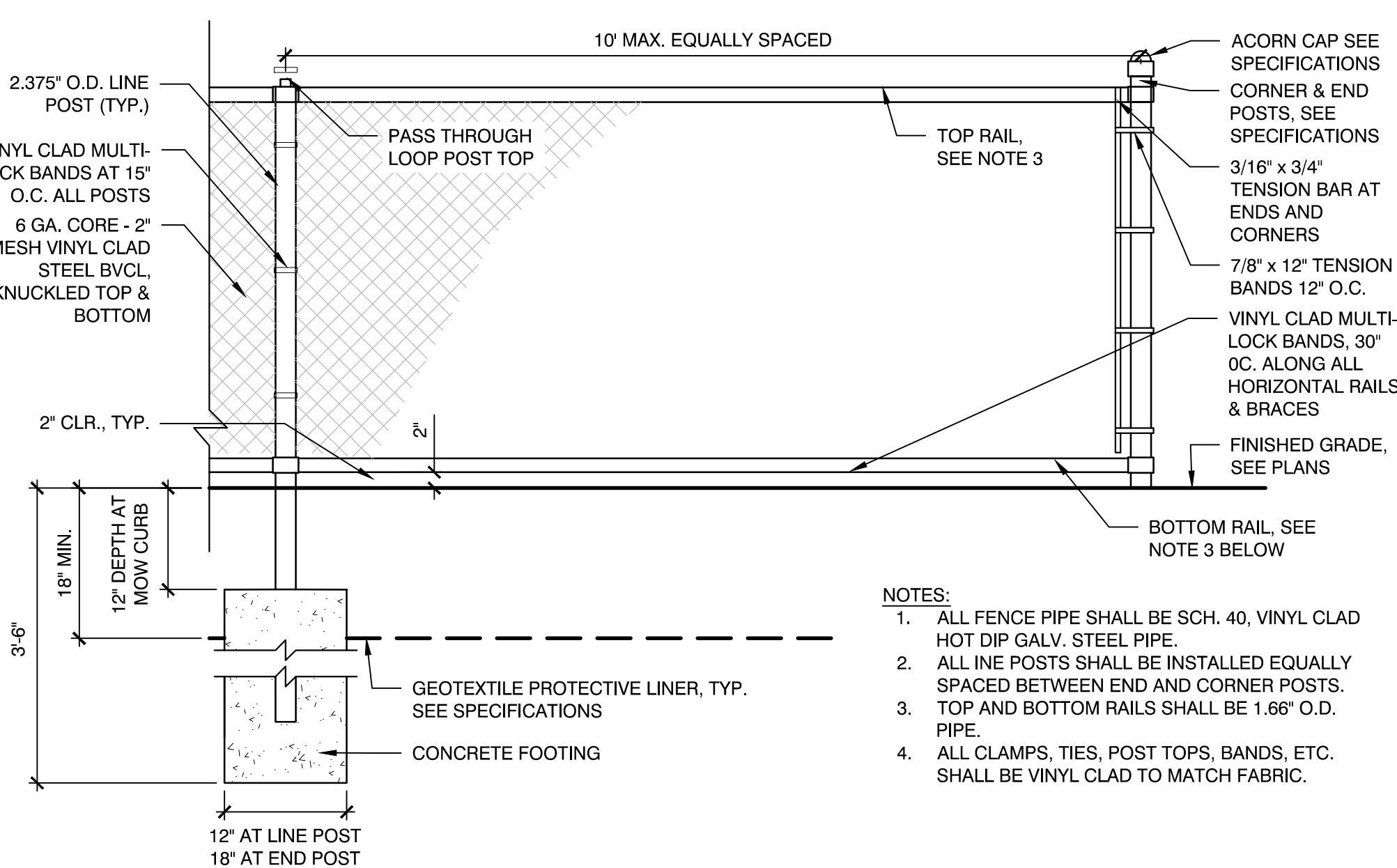
5 FLUSH GRANITE CURB
 SCALE: N.T.S.



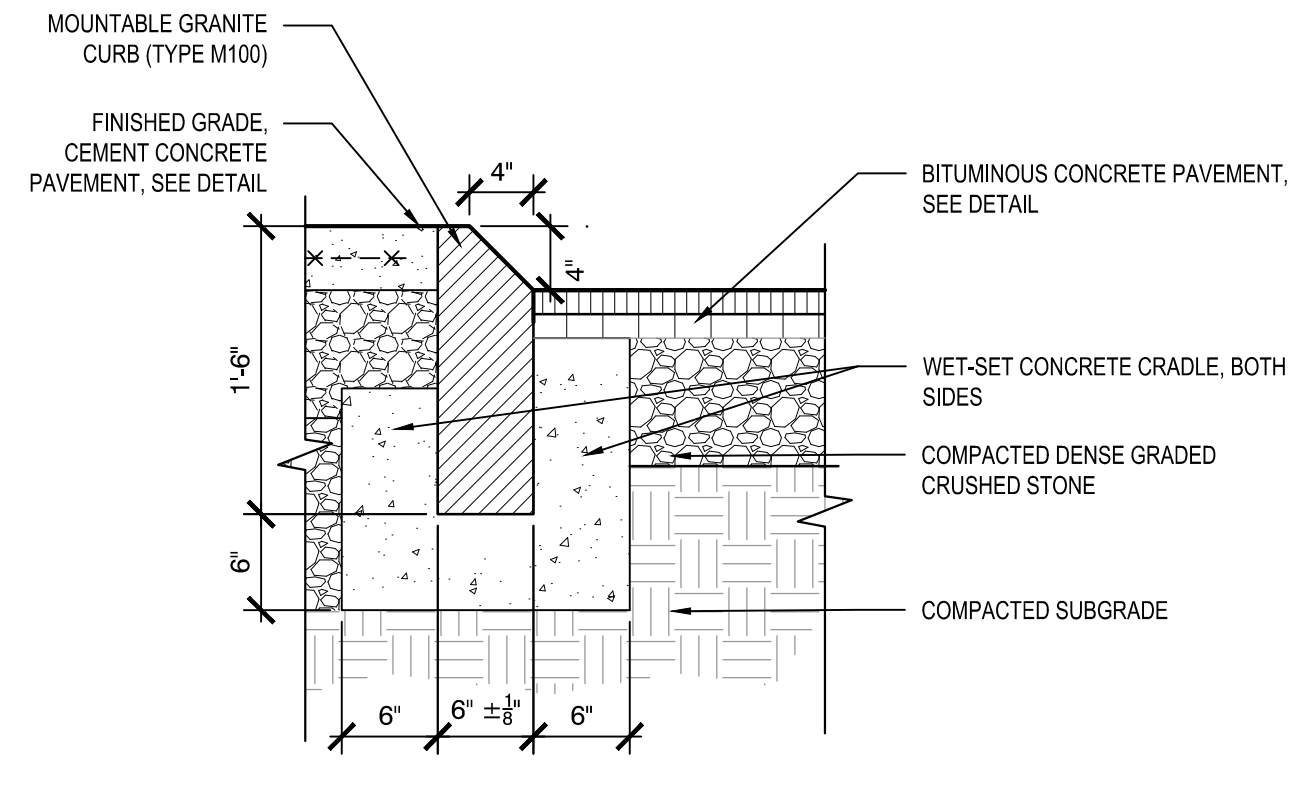
4 VERTICAL GRANITE CURB
 SCALE: N.T.S.



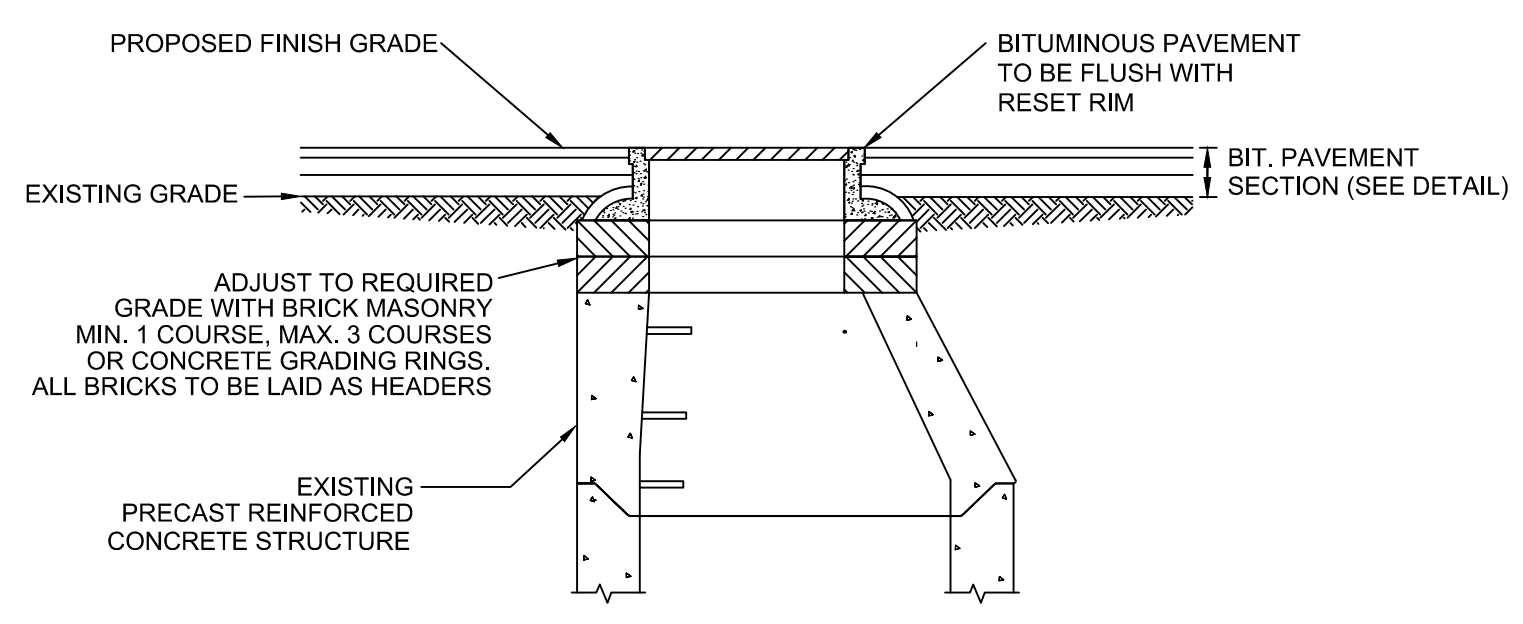
3 CAST-IN-PLACE CONCRETE RETAINING WALL WITH FIELDSTONE CAP
 SCALE: N.T.S.



7 4' HT. BVCL FENCE
 SCALE: N.T.S.



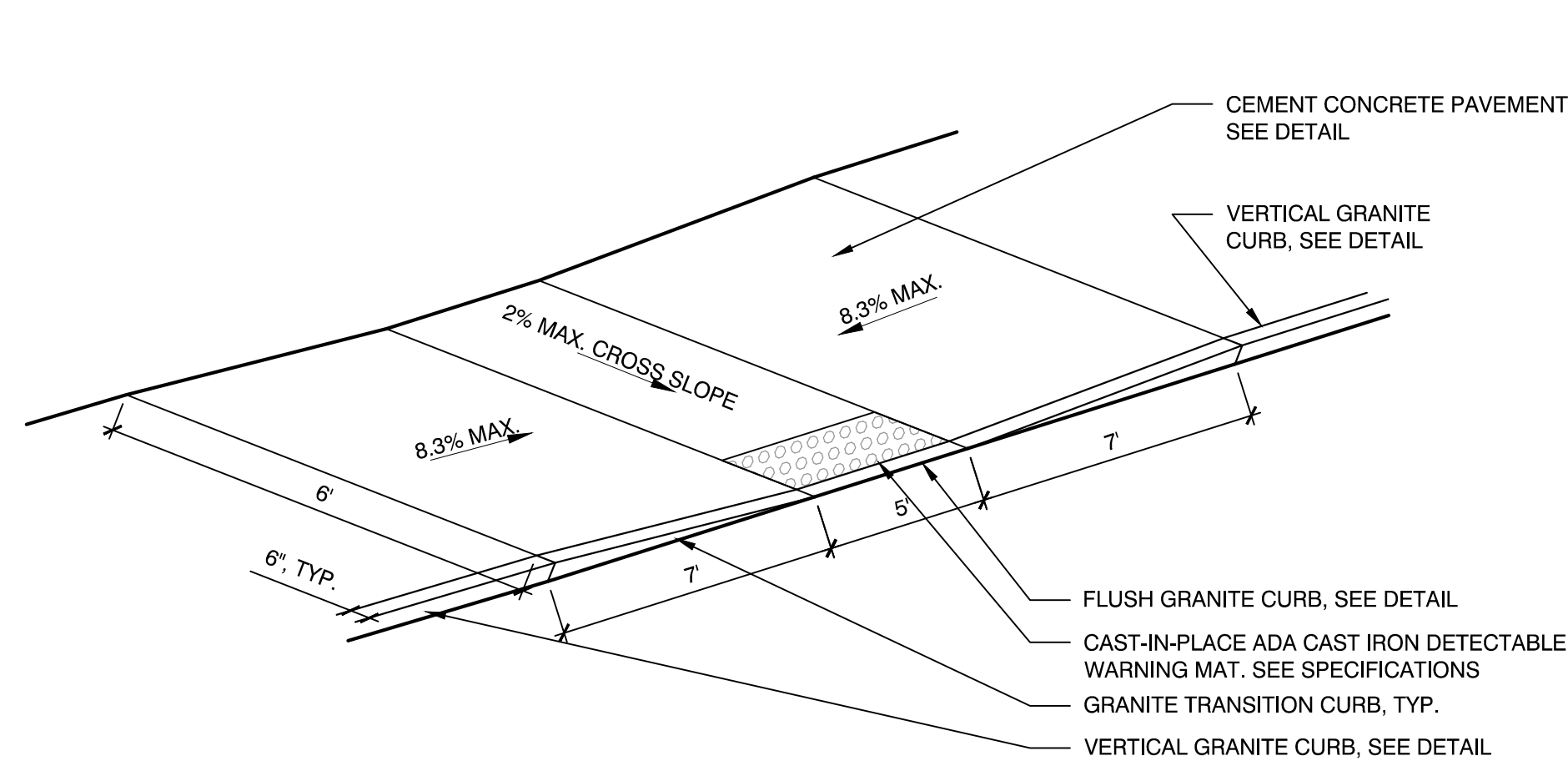
6 MOUNTABLE GRANITE CURB
 SCALE: N.T.S.



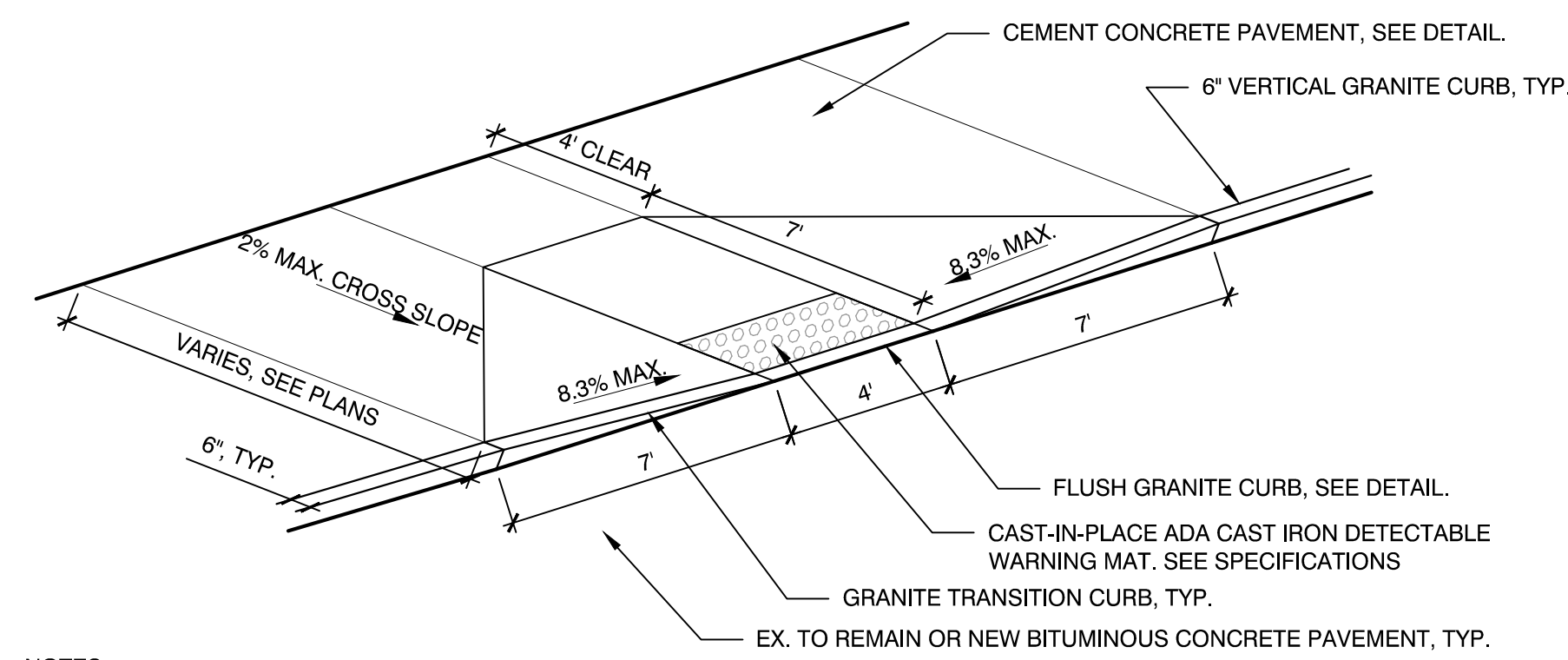
8 ADJUSTMENT OF MANHOLE COVER FOR GRADE CHANGES
 SCALE: N.T.S.

- NOTES:
1. ALL FENCE PIPE SHALL BE SCH. 40, VINYL CLAD HOT DIP GALV. STEEL PIPE.
 2. ALL INE POSTS SHALL BE INSTALLED EQUALLY SPACED BETWEEN END AND CORNER POSTS. TOP AND BOTTOM RAILS SHALL BE 1.66" O.D. PIPE.
 3. ALL CLAMPS, TIES, POST TOPS, BANDS, ETC. SHALL BE VINYL CLAD TO MATCH FABRIC.

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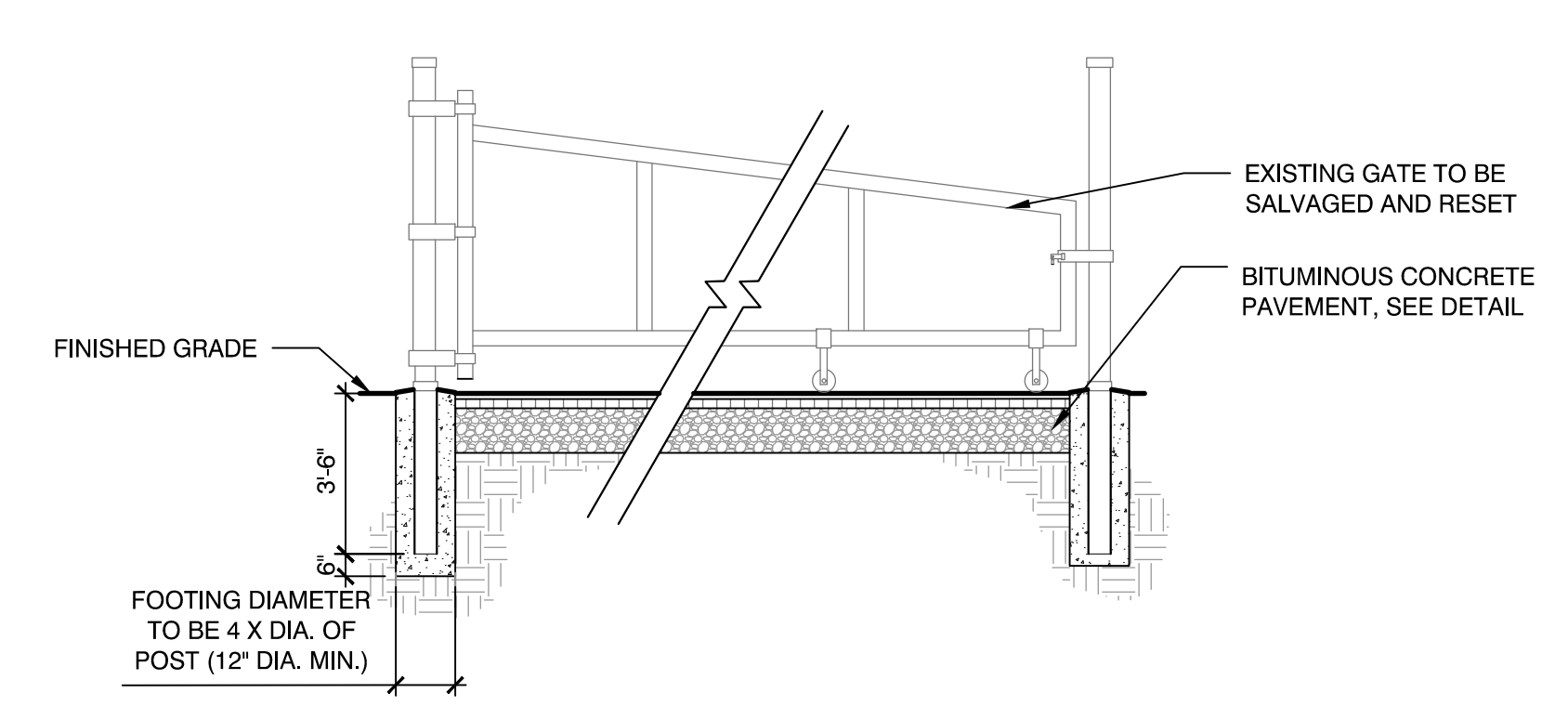


1 ADA CURB CUT- TYPE A
 SCALE: N.T.S.



NOTES:
 1. CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
 2. CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.

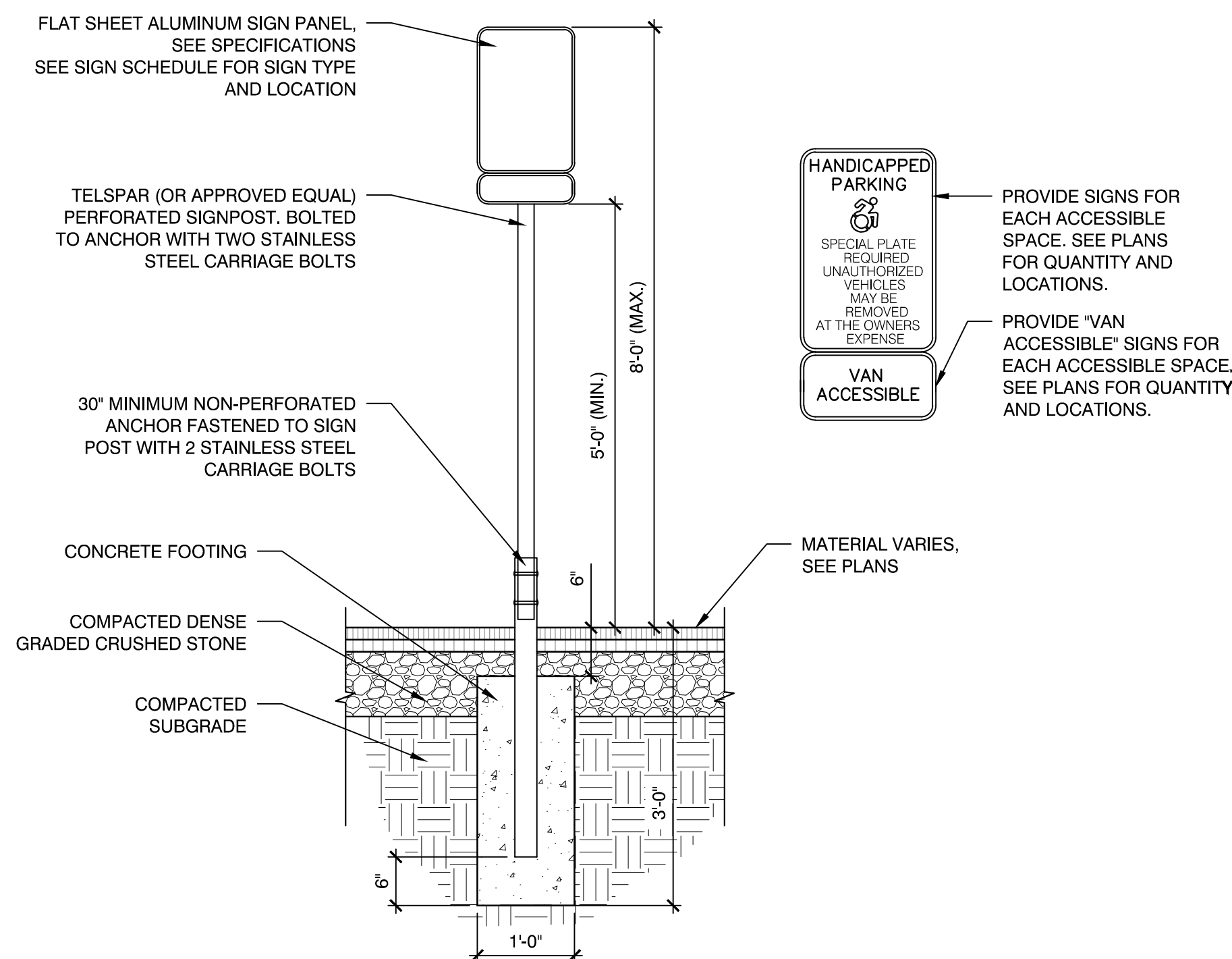
2 ADA CURB CUT- TYPE B
 SCALE: N.T.S.



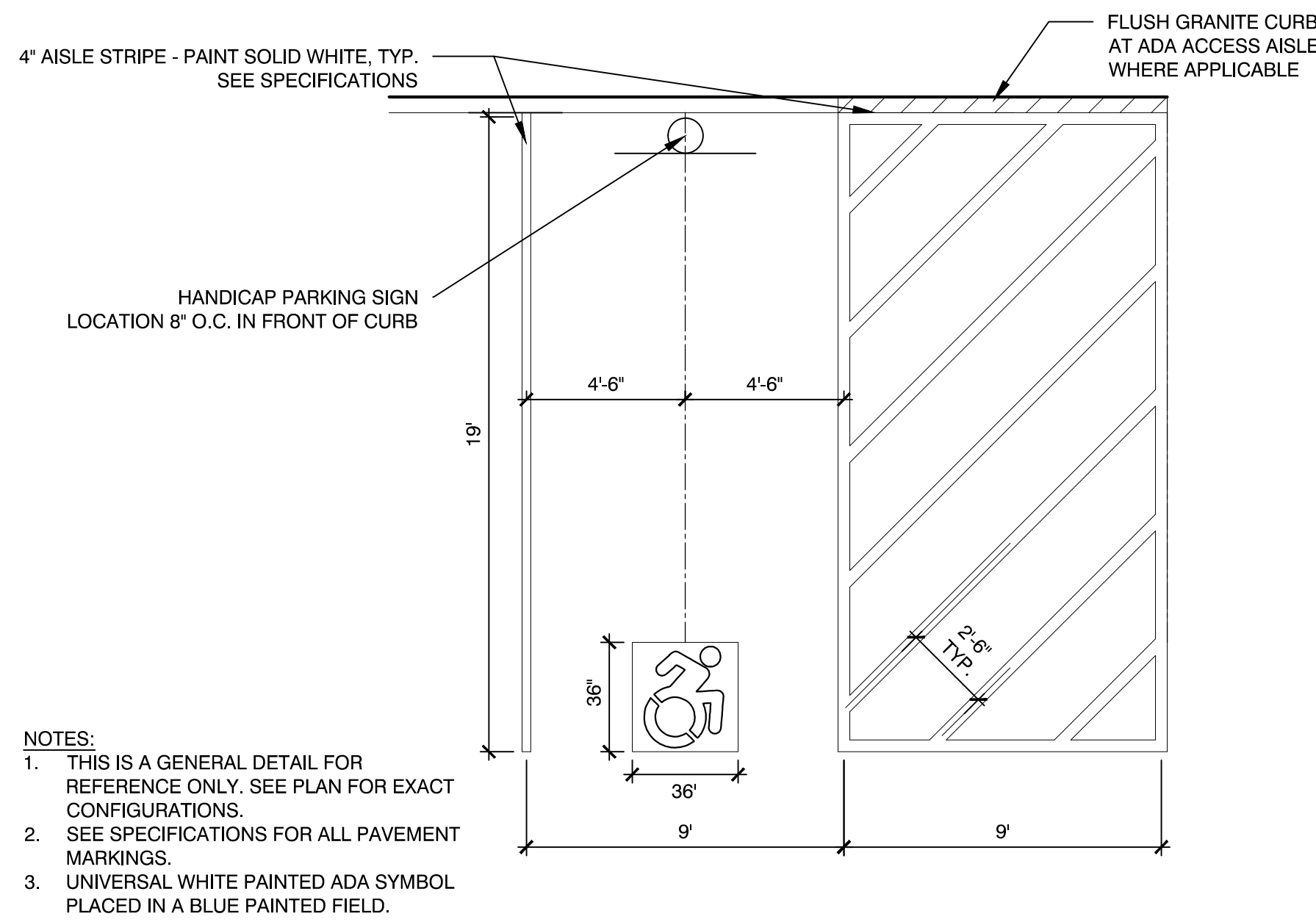
CONCRETE FOOTING:
 NORMAL WEIGHT CONCRETE AIR ENTRAINED WITH NOT LESS THAN 4,500 PSI COMPRESSIVE STRENGTH (28 DAYS), 3 INCH SLUMP, AND 1-INCH MAXIMUM SIZE AGGREGATE.

NOTE:
 A HITCH POST FOR THE GATE ALONG WITH A CONCRETE FOOTING FOR THE HITCH POST SHALL ALSO BE INSTALLED WITH THE METAL SWING GATE.
 EX. METAL SWING GATE, RESET

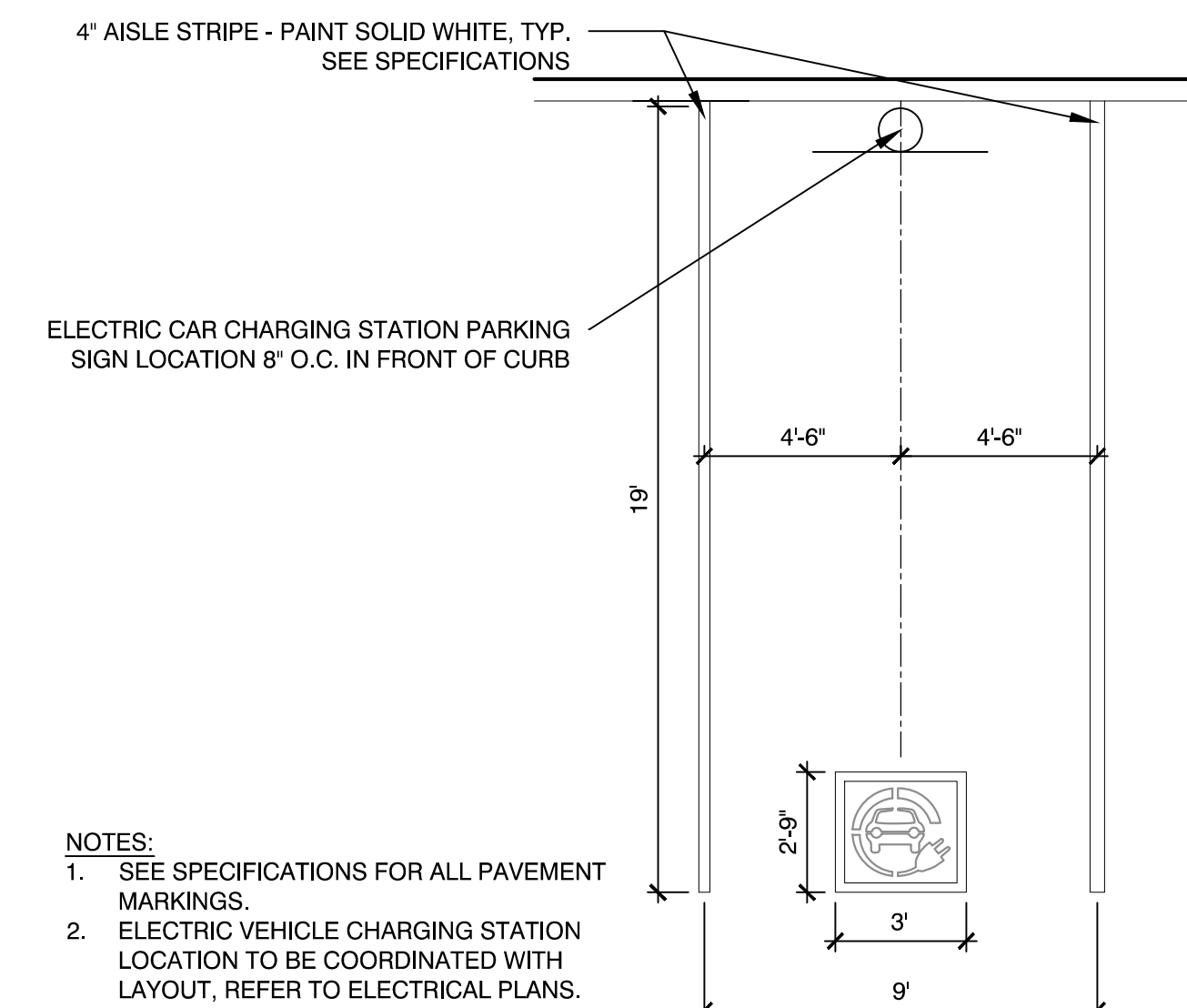
3
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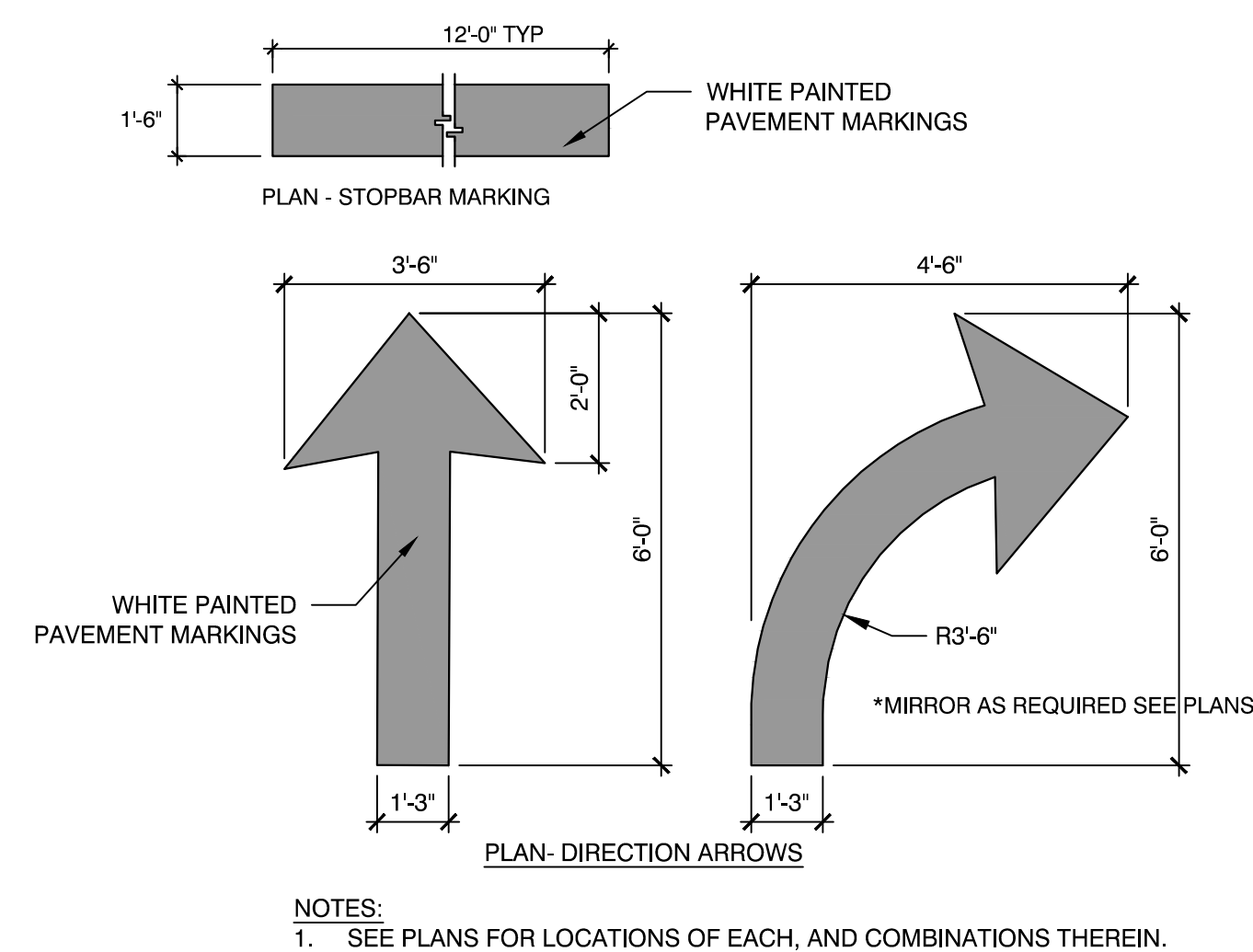
4 SIGN POST FOOTING
 SCALE: N.T.S.



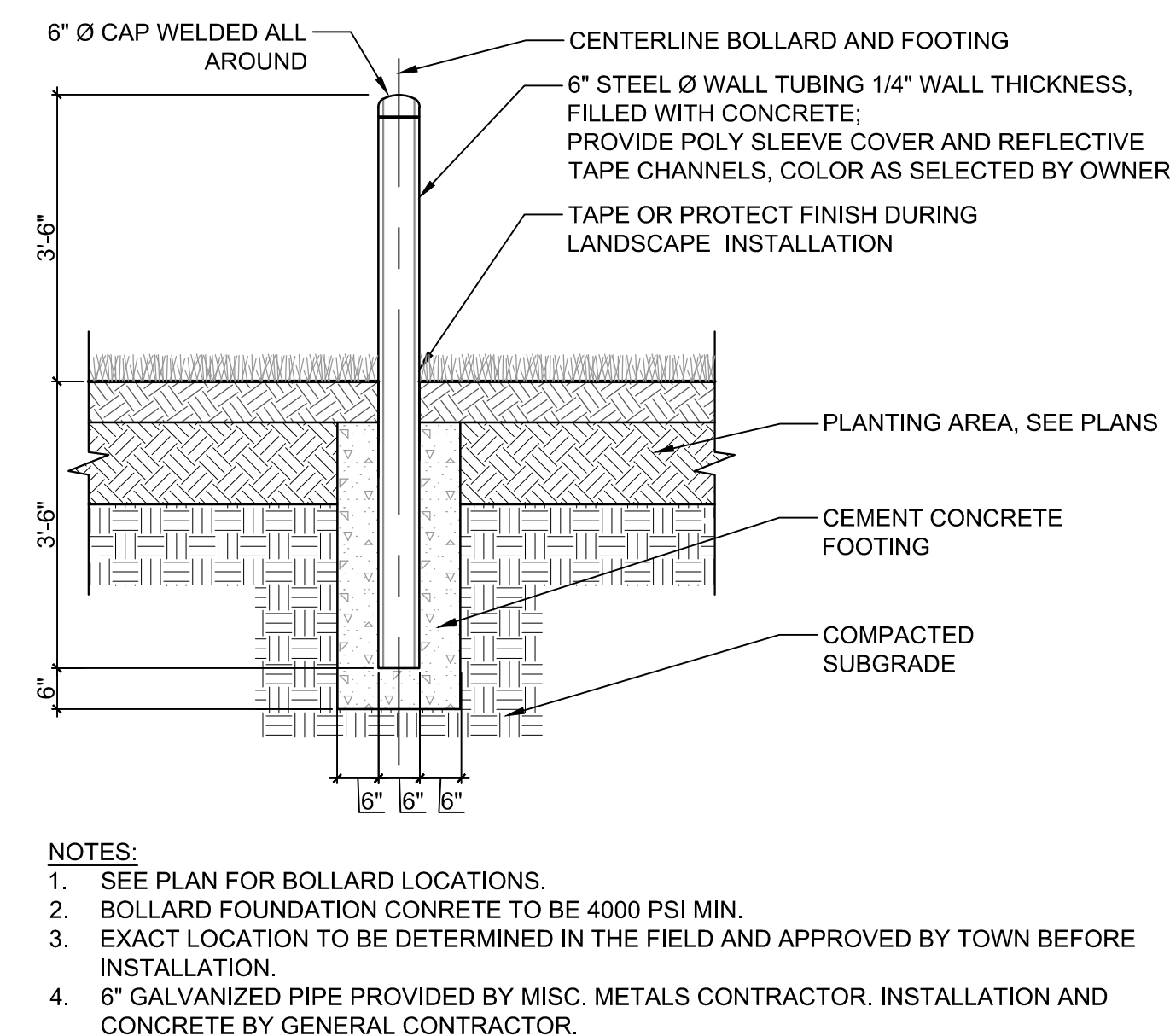
5 ACCESSIBLE PARKING SPACE LAYOUT
 SCALE: N.T.S.



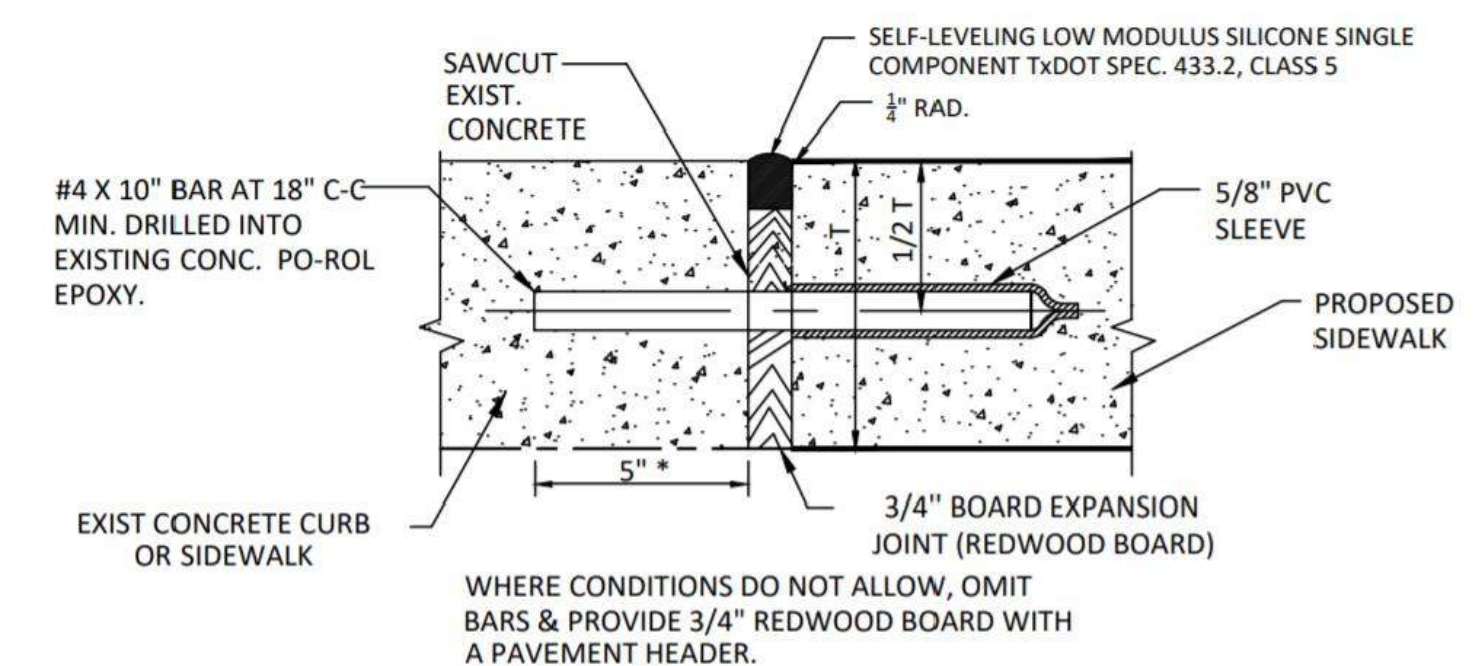
6 ELECTRIC CAR CHARGING STATION PARKING SPACE LAYOUT
 SCALE: N.T.S.



7 DIRECTIONAL ARROW AND STOP BAR TRAFFIC MARKINGS
 SCALE: N.T.S.



8 EXTERIOR STEEL BOLLARD
 SCALE: N.T.S.



9 PROPOSED SIDEWALK AT EXISTING CONCRETE
 SCALE: N.T.S.

Consultants:

Revisions:		
No.	Date	Description
1	10/06/22	REV PER CLIENT
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 JAMES I. PEARSON
 CIVIL
 No. 50675
 REGISTERED PROFESSIONAL ENGINEER
 11/09/2022

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 W&S File No.:

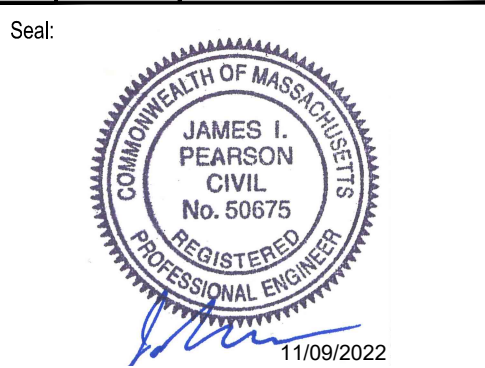
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Sheet Number:
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No.	Date	Description
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2	11/09/22	REV PER CON COM



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Date: MAY 6, 2022

Drawn By: EJA

Reviewed By: CB

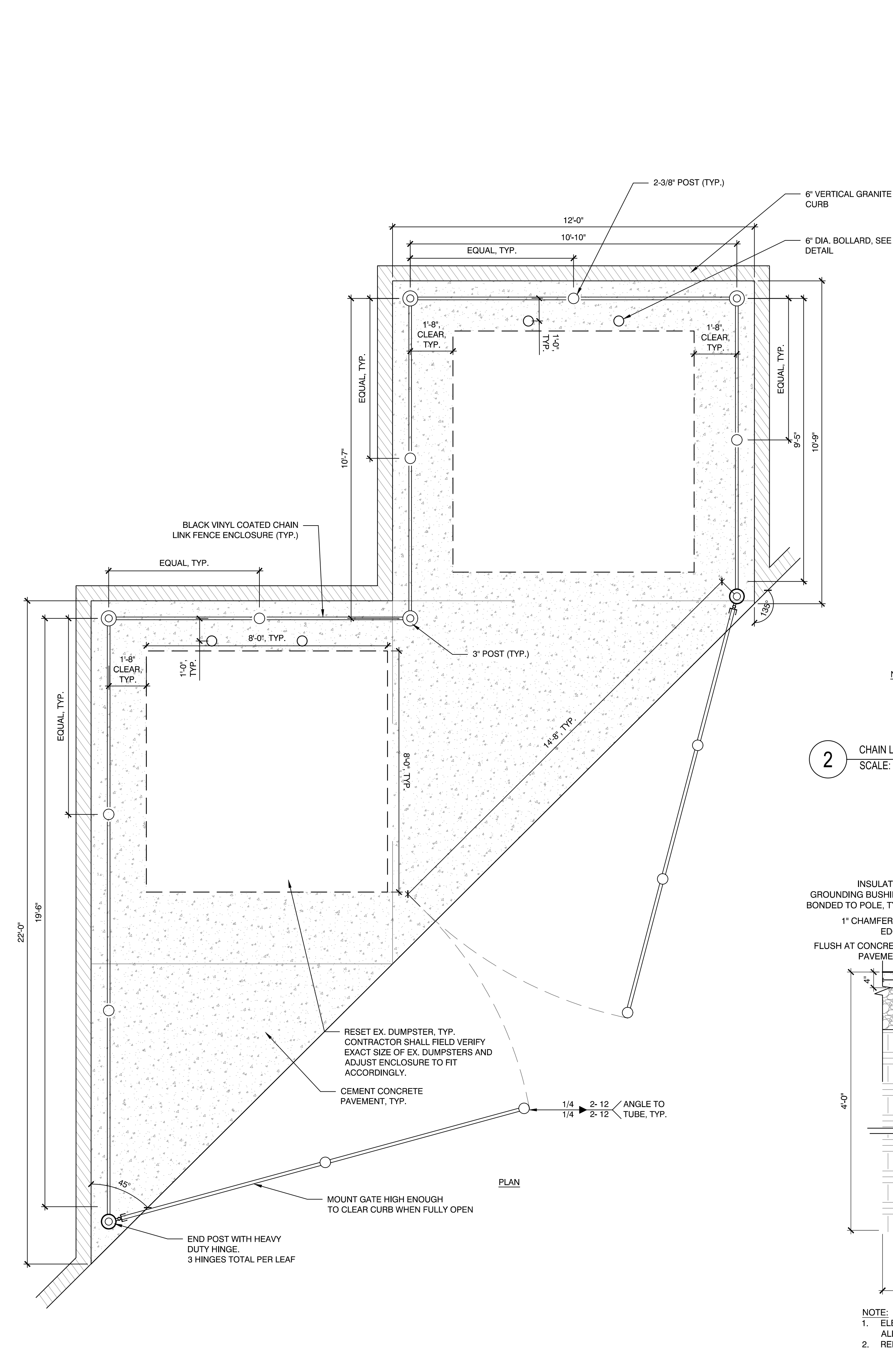
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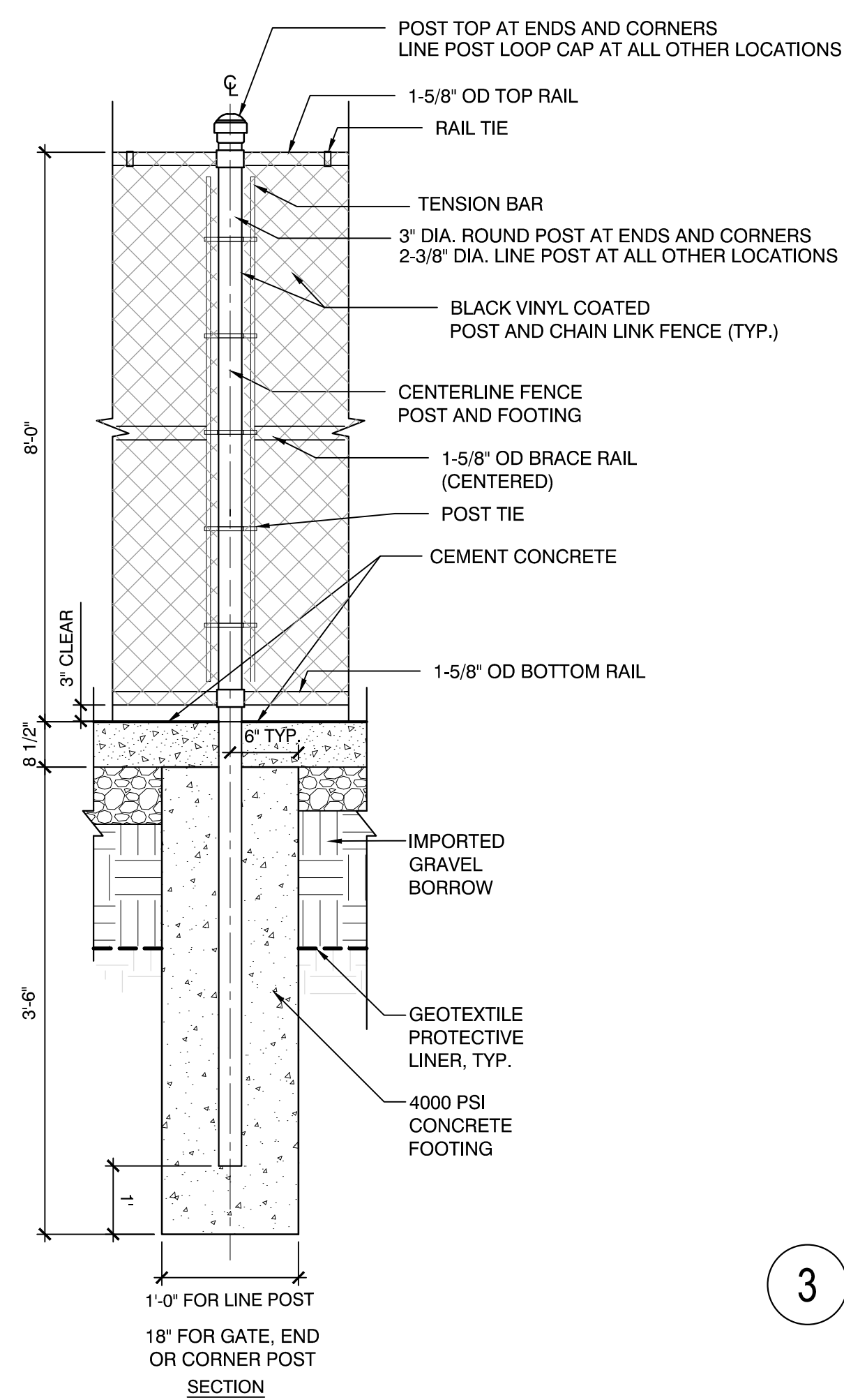
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Sheet Number:

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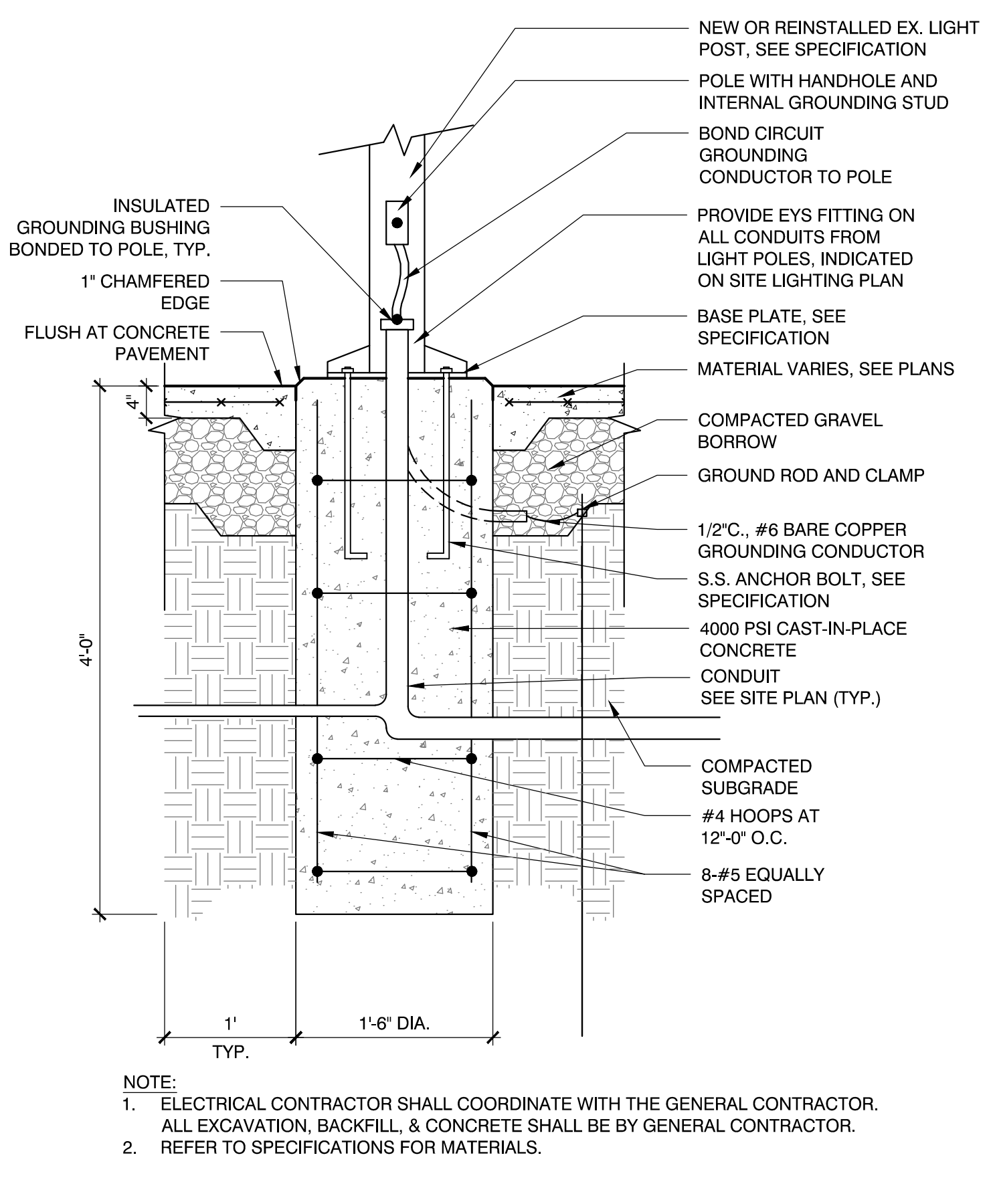


1 DUMPSTER ENCLOSURE
SCALE: N.T.S.

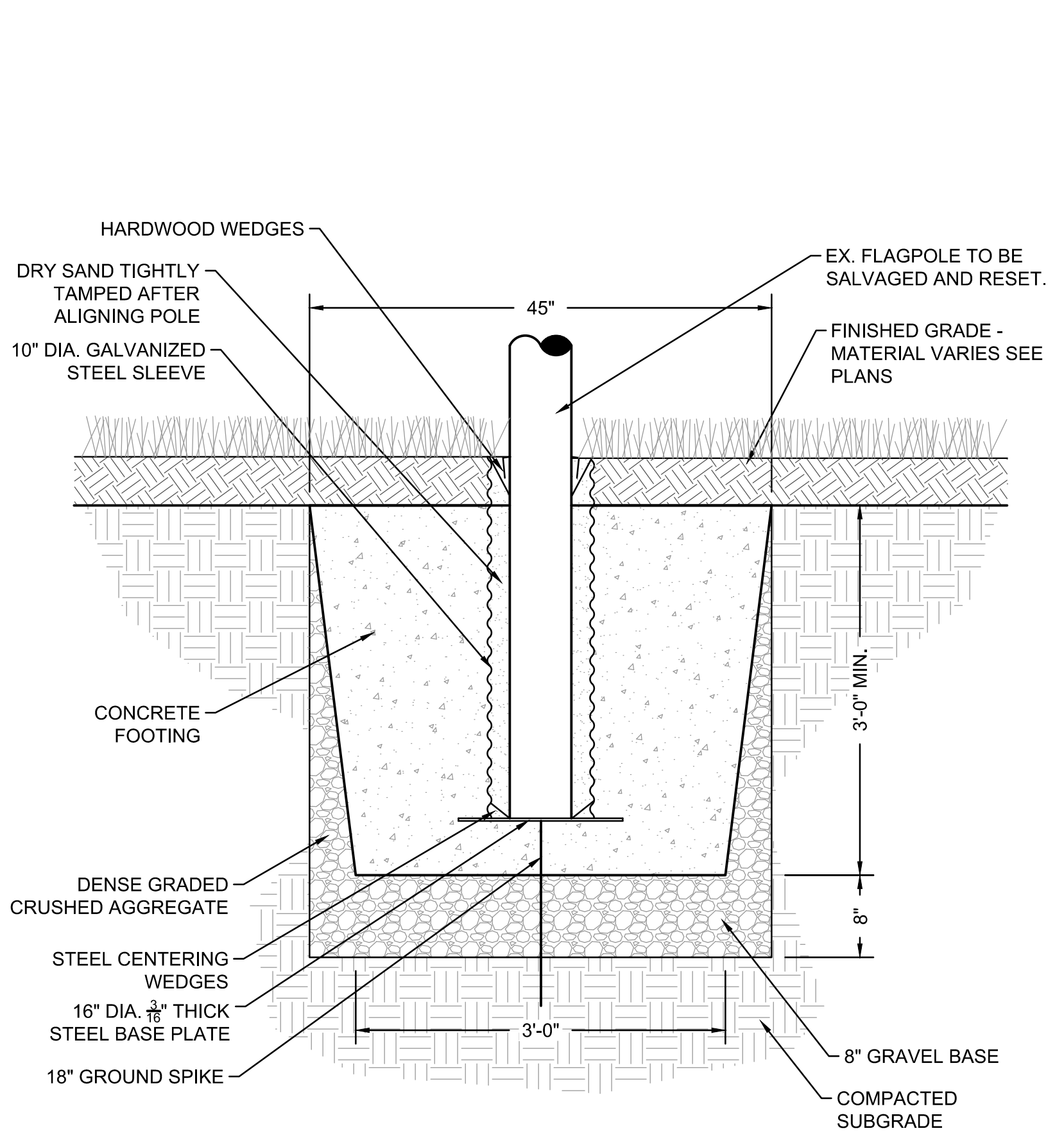


2 CHAIN LINK FENCE DUMPSTER ENCLOSURE
SCALE: N.T.S.

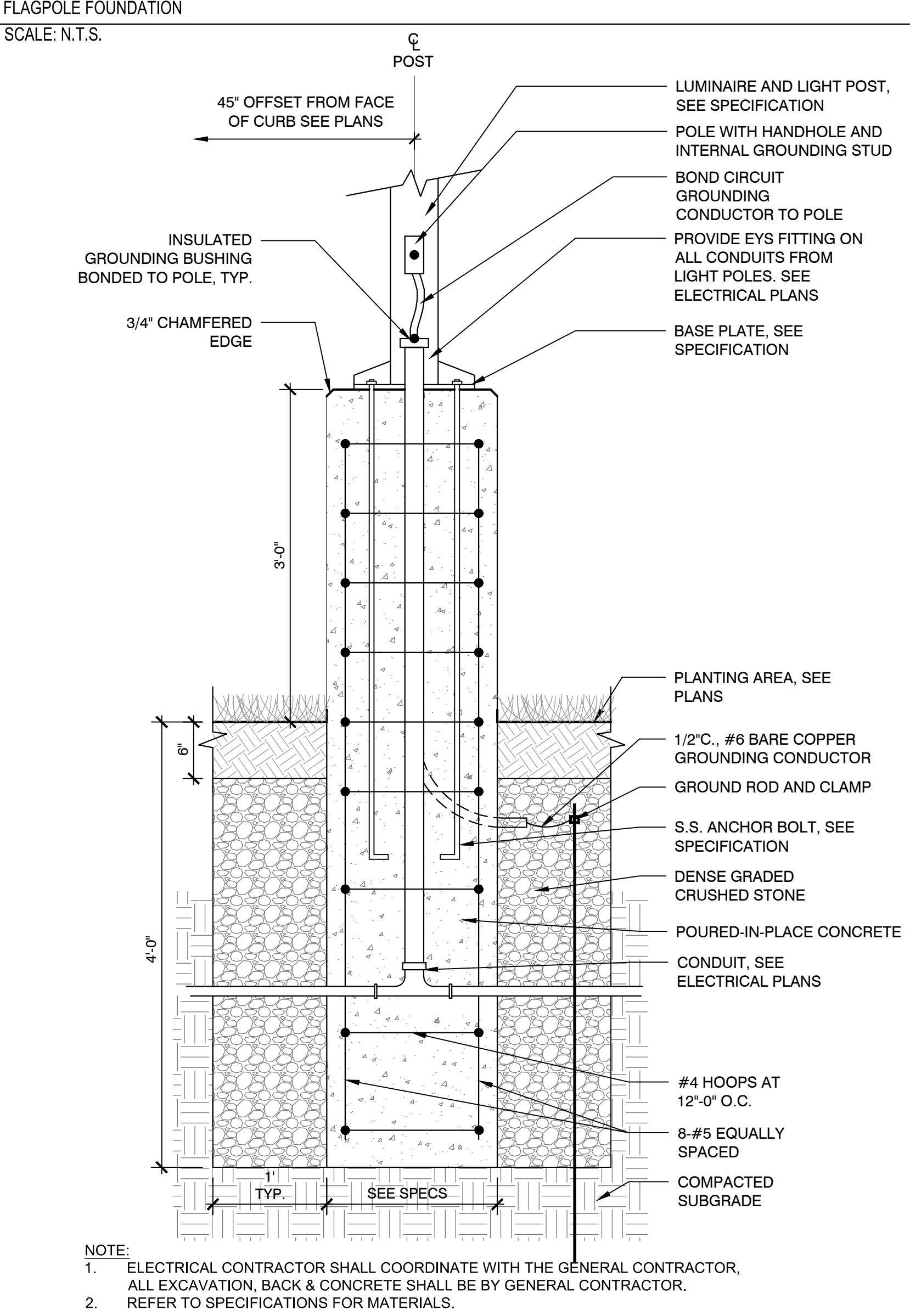
- NOTES:
1. ALL MATERIALS USED FOR ENCLOSURE SHALL BE BLACK VINYL COATED.
 2. INSTALL CANE BOLT DROP BAR ON EACH GATE. INSTALL LATCH AND GATE PULL.
 3. PROVIDE DIAGONAL ANGLE BRACE FOR EACH LEAF. (COLOR: BLACK)
 4. ENTIRETY OF ENCLOSURE TO HAVE BLACK PRIVACY SLATS.



4 PEDESTRIAN LIGHT POLE FOUNDATION
SCALE: N.T.S.



3 FLAGPOLE FOUNDATION
SCALE: N.T.S.



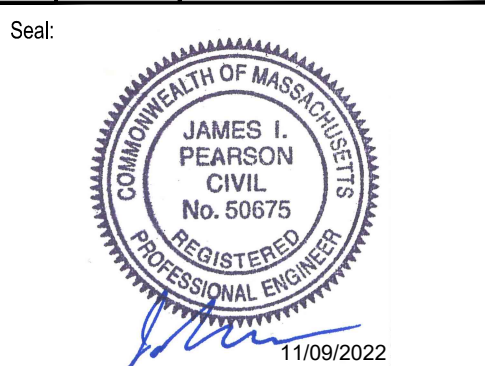
5 PEDESTRIAN LIGHT POLE FOUNDATION (RAISED BASE)
SCALE: N.T.S.

Consultants:

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Revisions:

No.	Date	Description
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2	11/09/22	REV PER CON COM



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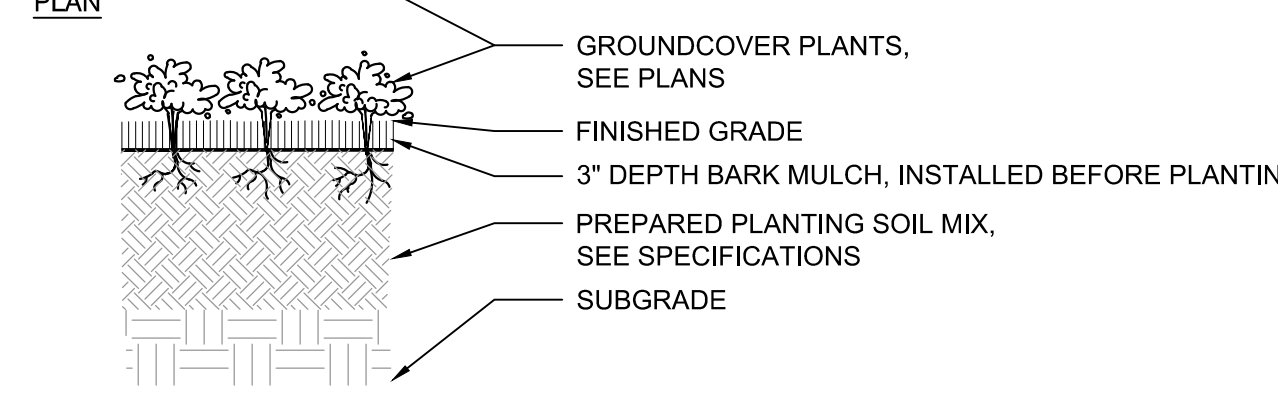
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Drawn By: EJA
Reviewed By: CB
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W&S File No.:

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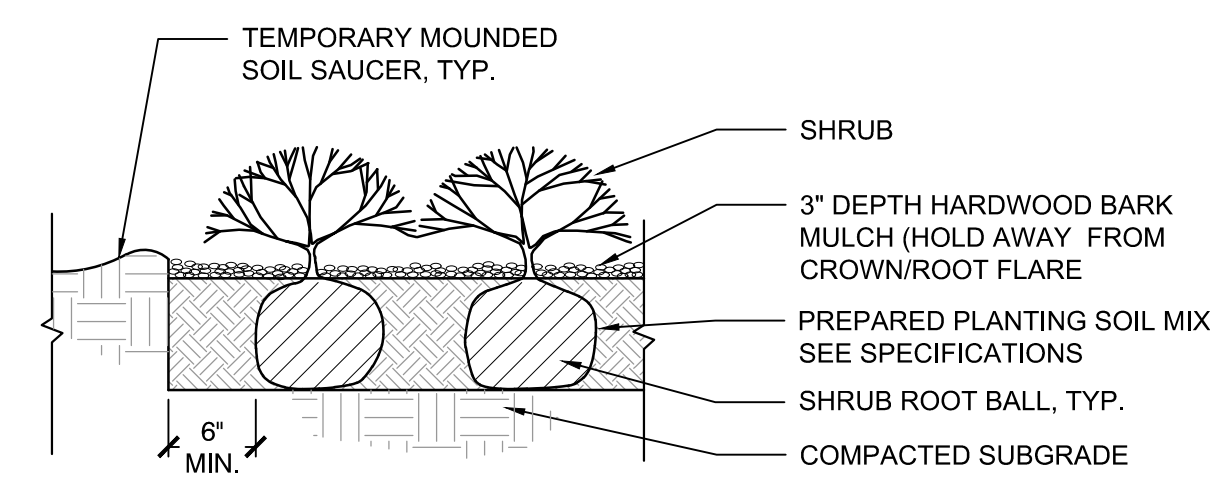
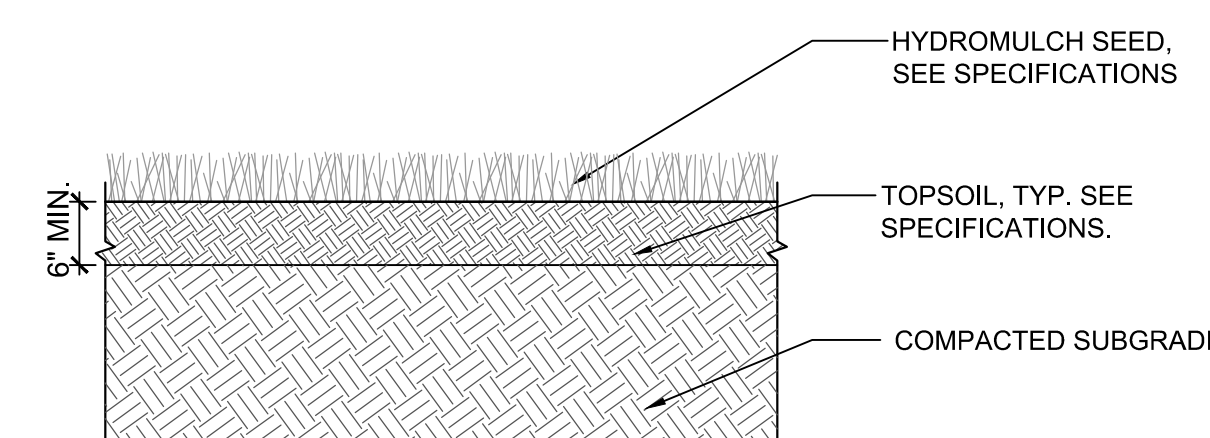
Sheet Number:
C505

GROUNDCOVER SPACING TABLE

PLANT SPACING 'A'	PLANT SPACING 'B'	PLANTS	AREA UNIT
6" O.C.	5.2"	4.61	1 SQ. FT.
8" O.C.	6.93"	2.6	1 SQ. FT.
10" O.C.	8.66"	1.66	1 SQ. FT.
12" O.C.	10.4"	1.15	1 SQ. FT.



- NOTES:
1. ALL GROUNDCOVERS TO BE PLANTED IN TRIANGULAR PATTERN. SEE PLANTING SCHEDULE FOR SPACING.
2. JUTE EROSION CONTROL MAT TO BE USED ON ALL SLOPES 3:1 OR GREATER. SEE SPECIFICATIONS

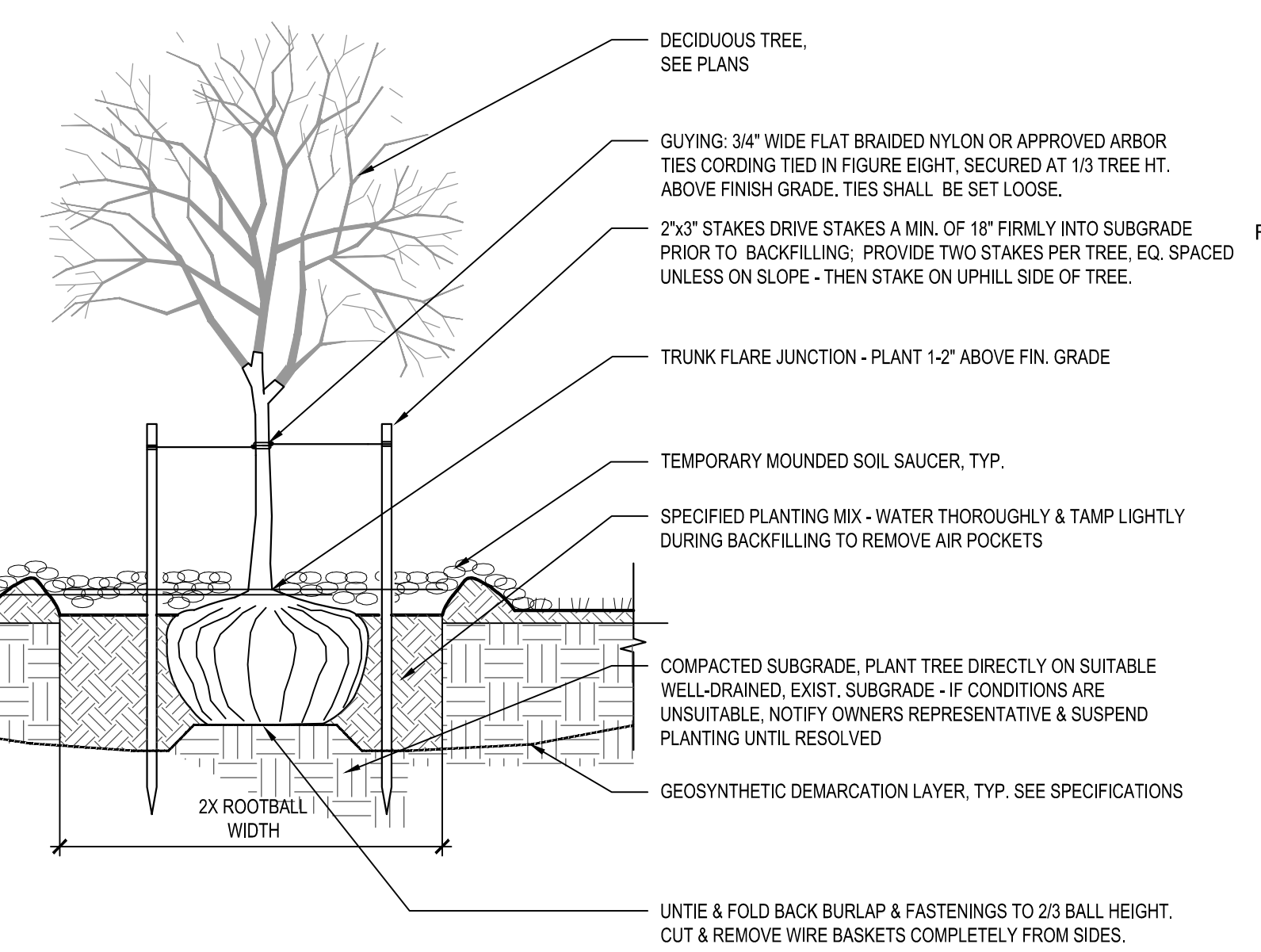
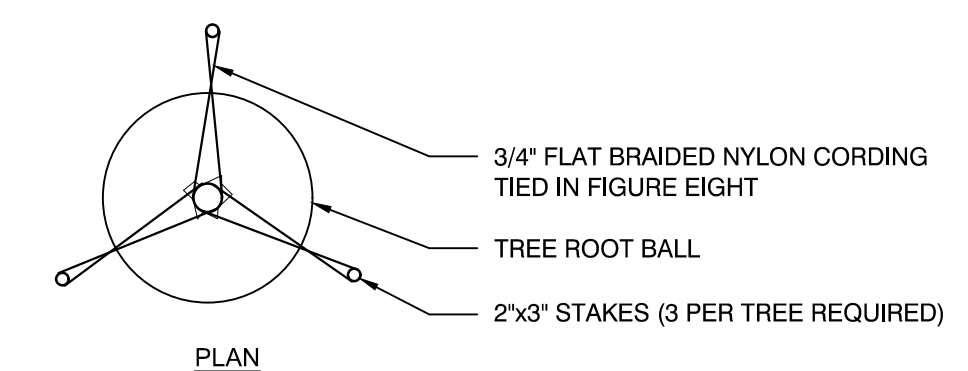


- NOTE:
1. ALL MULCH MUST BE DARK IN COLOR. PROVIDE SAMPLE PRIOR TO INSTALLATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.

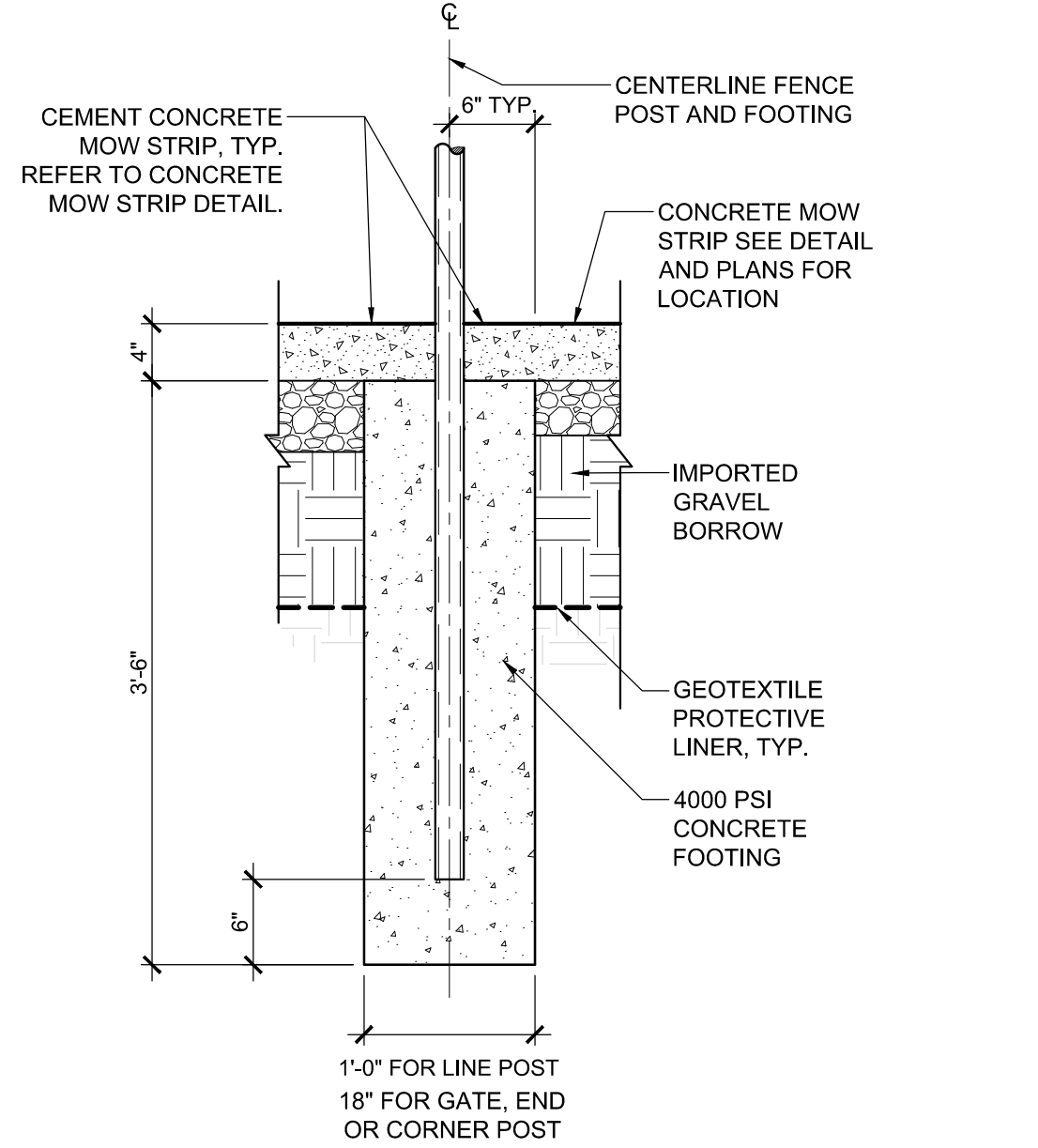
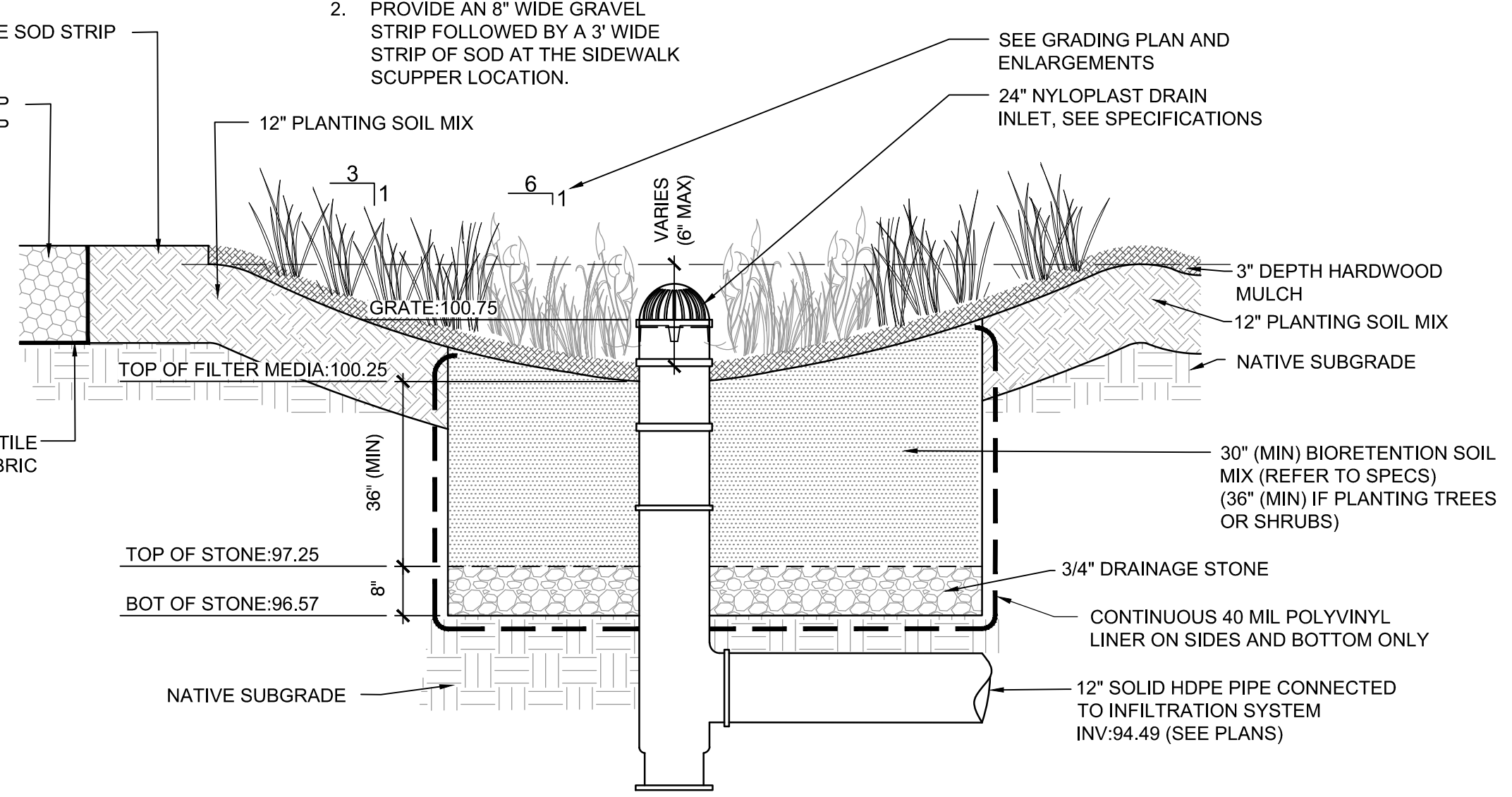
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2 LOAM AND SEED
SCALE: N.T.S.

3 SHRUB PLANTING
SCALE: N.T.S.



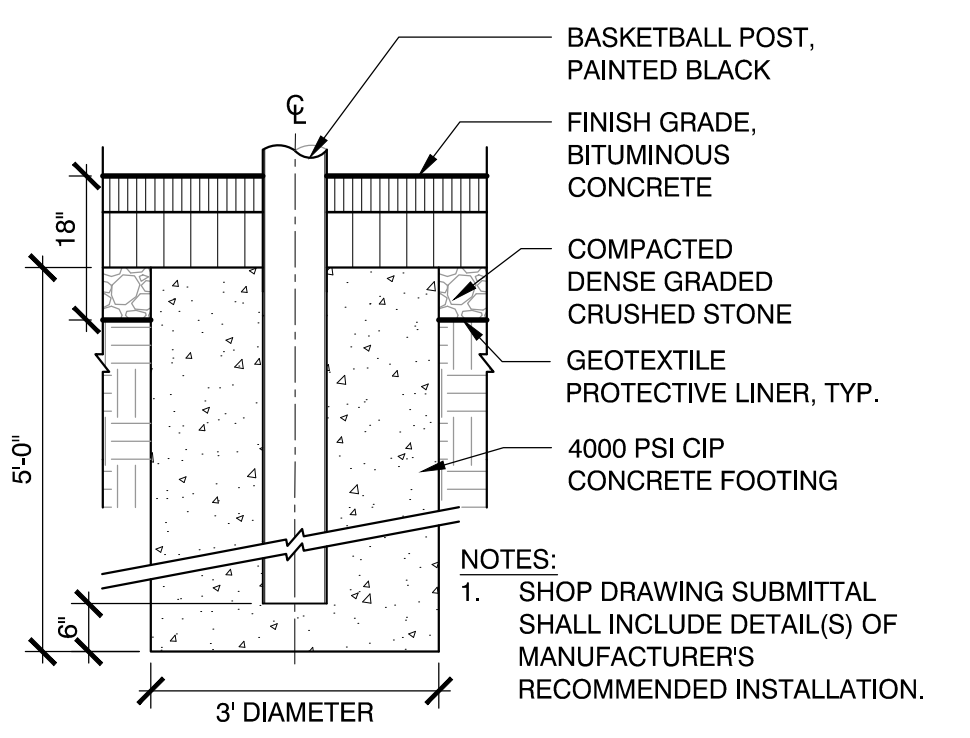
- NOTES:
1. REFER TO PLANTING PLANS FOR PLANT TYPES AND SPACING.
2. PROVIDE AN 8\"/>



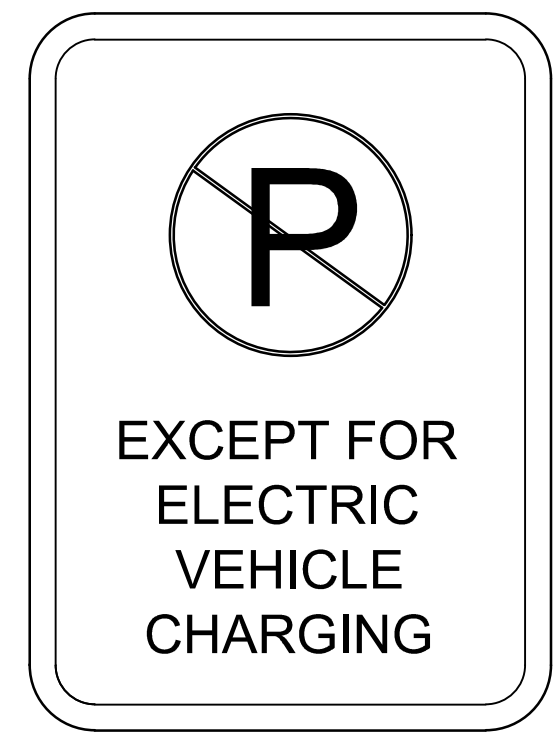
4 TREE PLANTING AND STAKING
SCALE: N.T.S.

5 BIORETENTION AREA
SCALE: N.T.S.

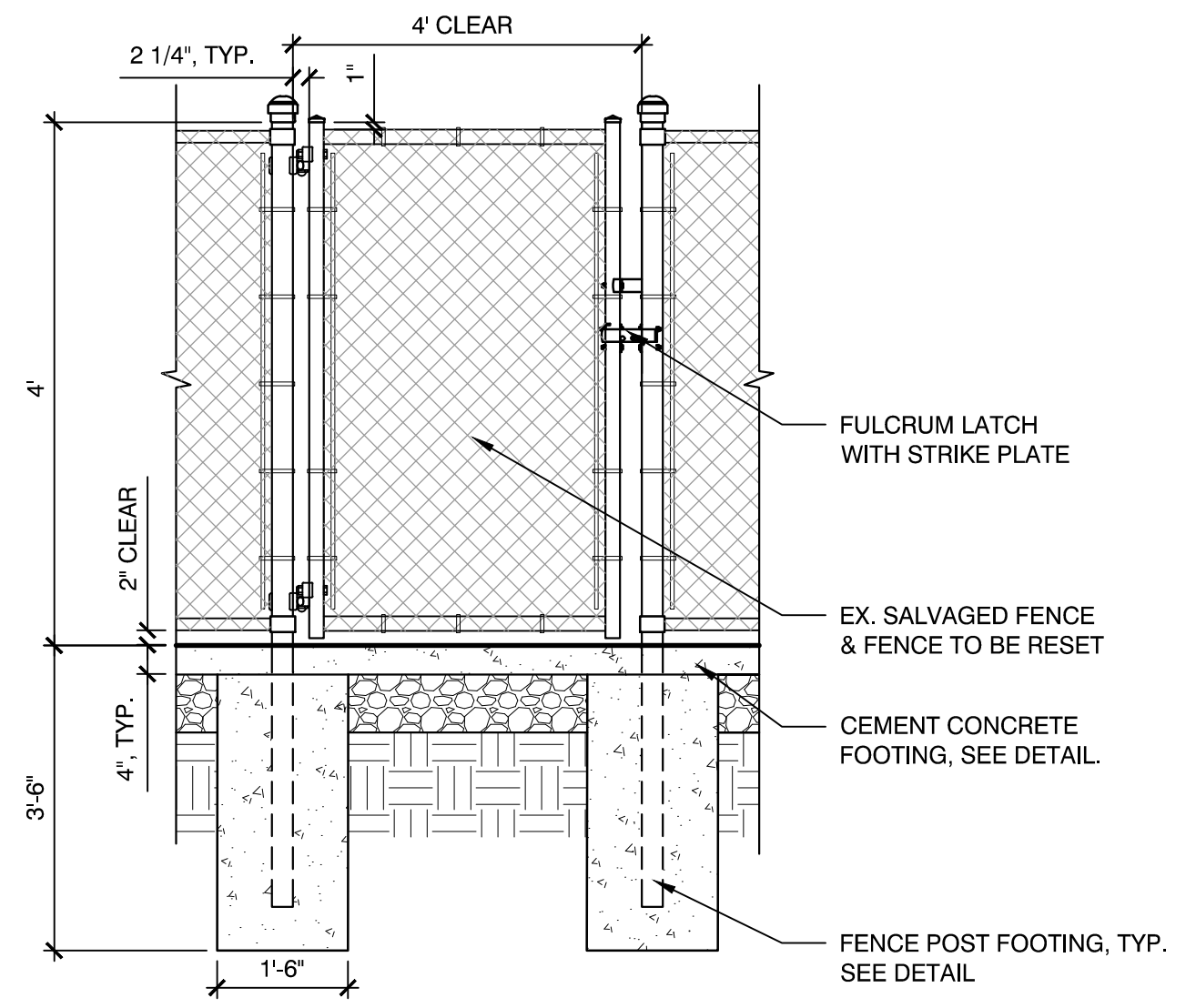
6 FENCE POST FOOTING
SCALE: N.T.S.



- NOTES:
1. SHOP DRAWING SUBMITTAL SHALL INCLUDE DETAIL(S) OF MANUFACTURER'S RECOMMENDED INSTALLATION.



8 EV CHARGING STATION SIGN
SCALE: N.T.S.



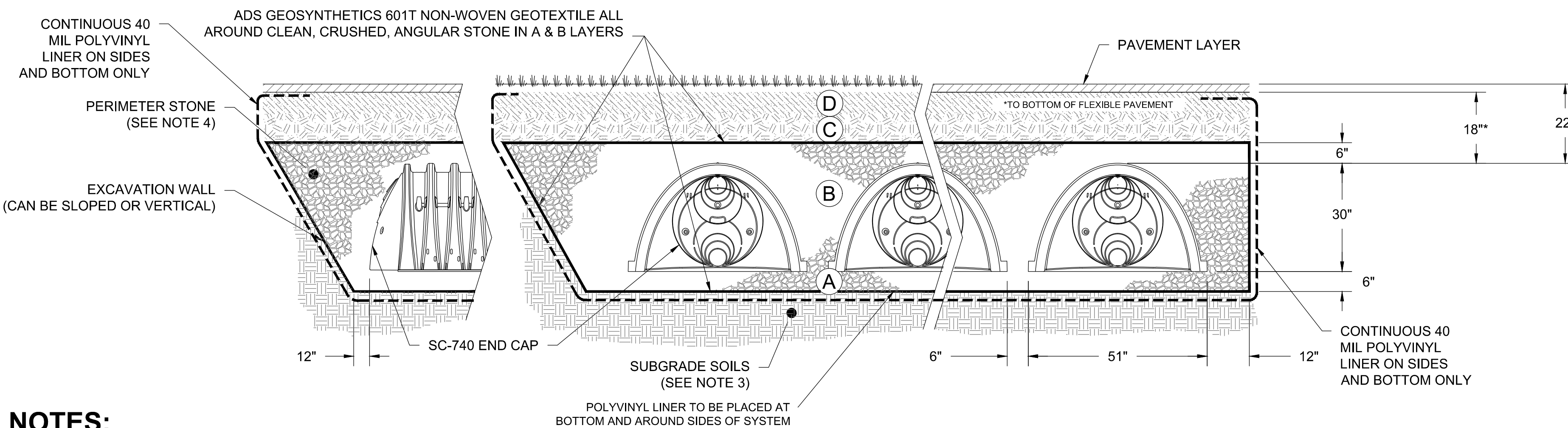
9 GATE POST AND FOOTING
SCALE: N.T.S.

7 BASKETBALL POST FOOTING
SCALE: N.T.S.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

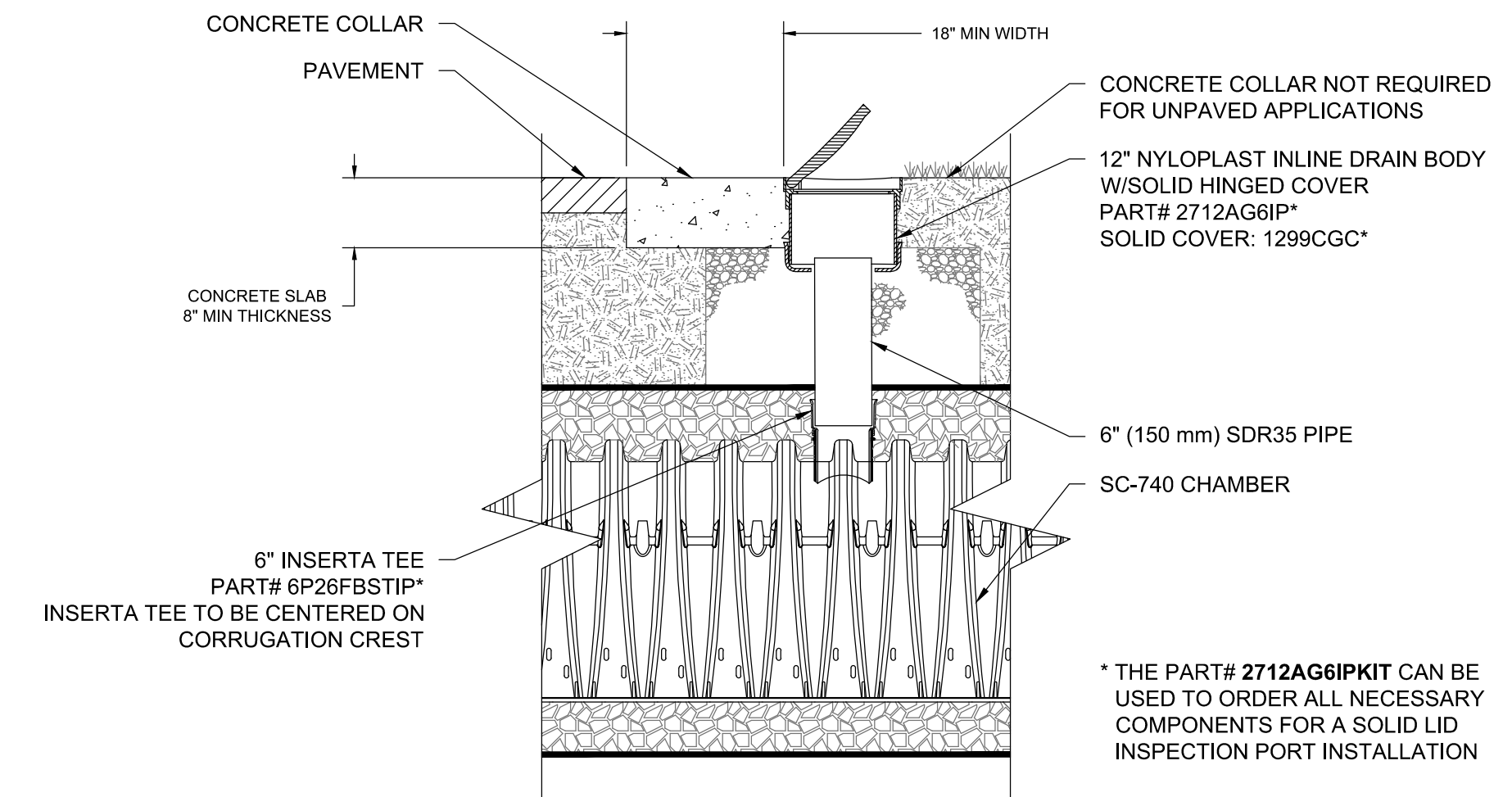
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

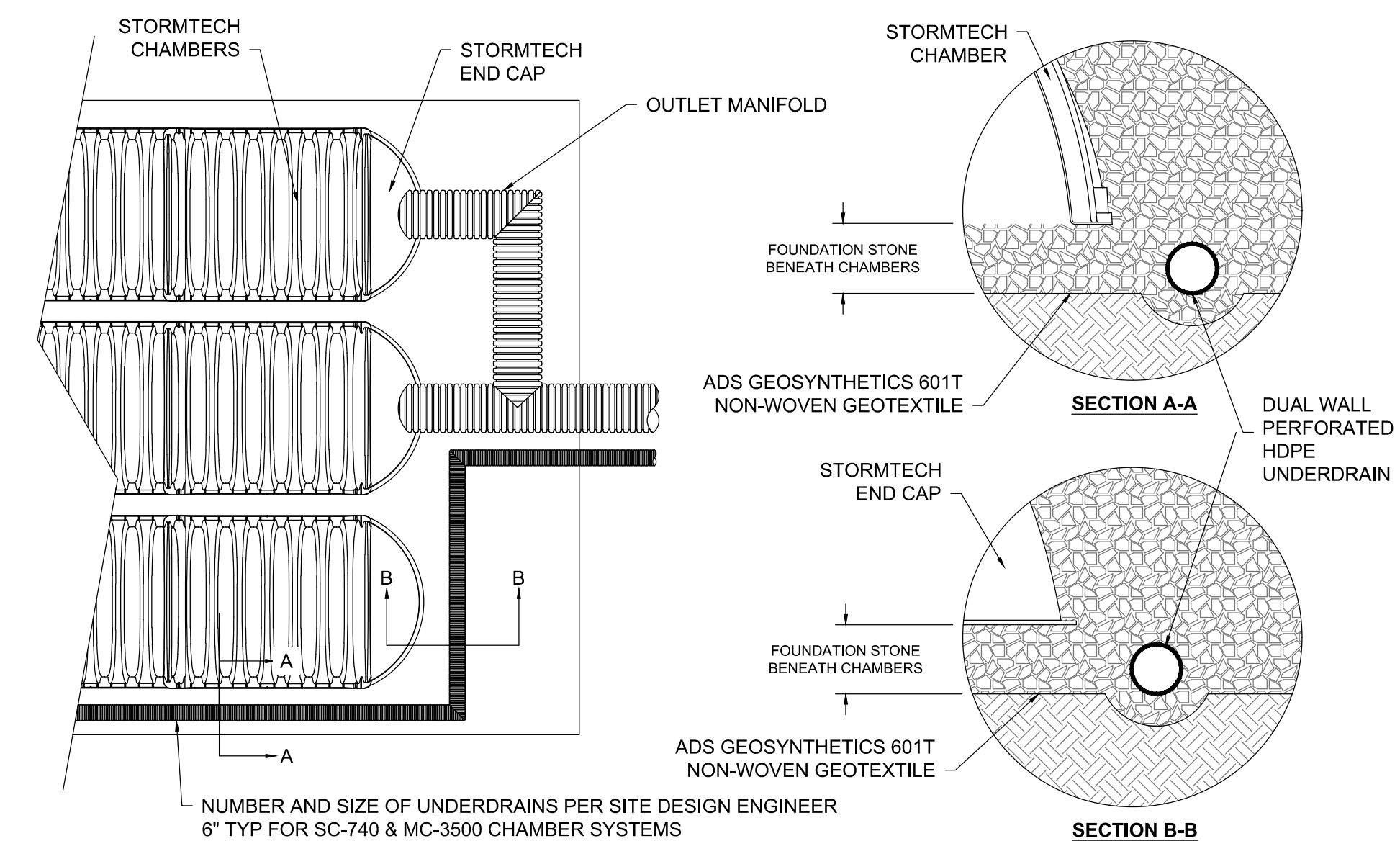


- NOTES:**
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
 - DETENTION SYSTEM IS TO BE SEALED AND LINED WITH A POLYVINYL LINER ALONG THE SIDES AND THE BOTTOM OF THE SYSTEM.

1 DETENTION SYSTEM (DS-1) SUBSURFACE CHAMBER SYSTEM DETAILS
SCALE: NTS



2 STORMWATER CHAMBER INSPECTION PORT
SCALE: NTS



3 SC-740 UNDERDRAIN
SCALE: NTS

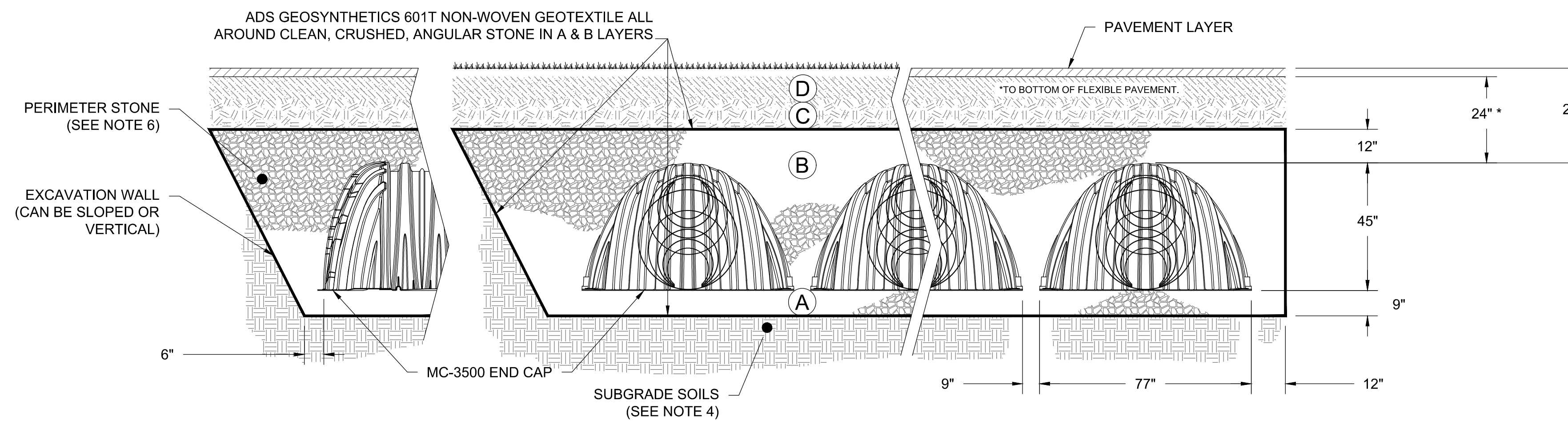
No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

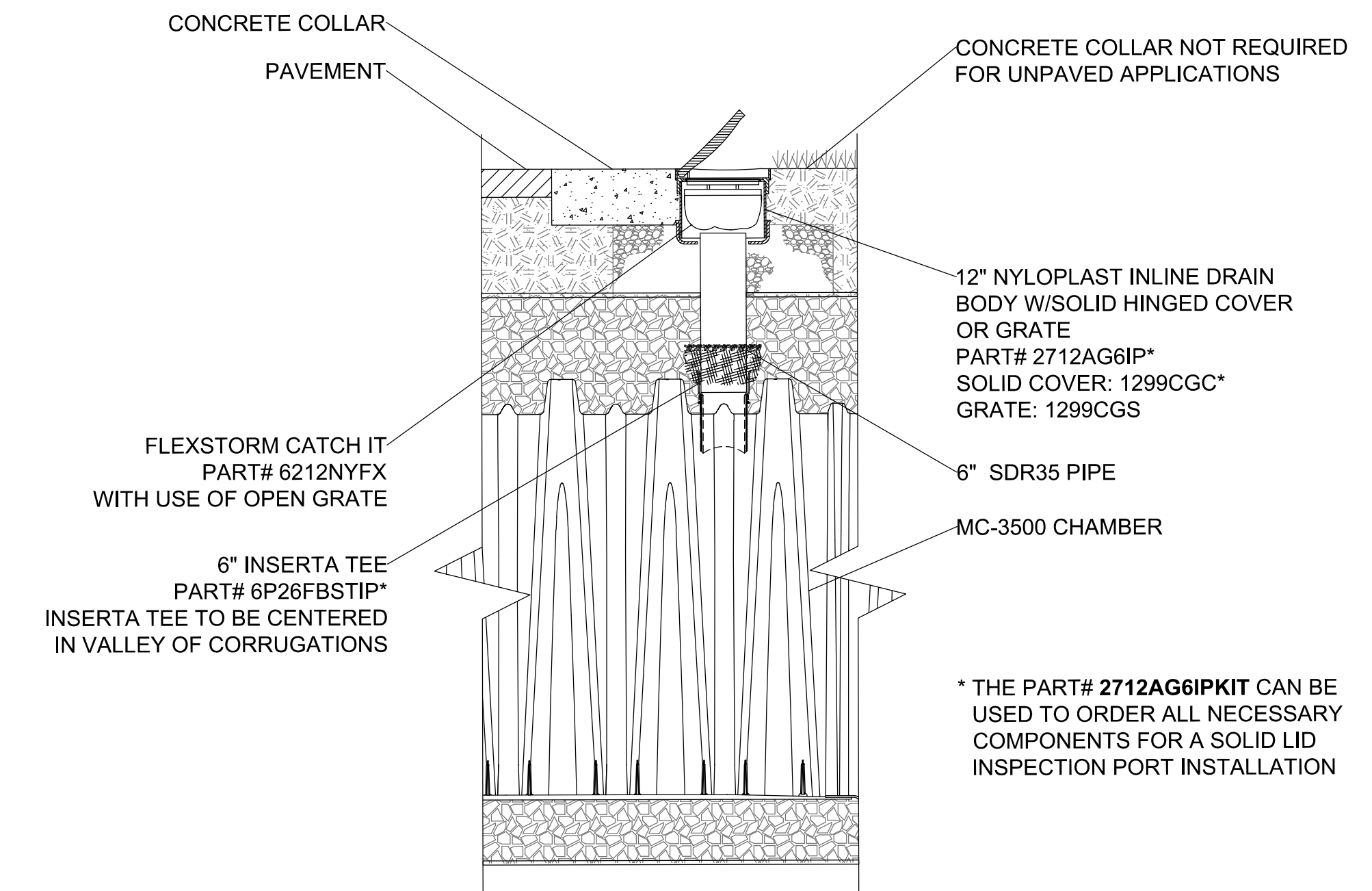


NOTES:

- MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

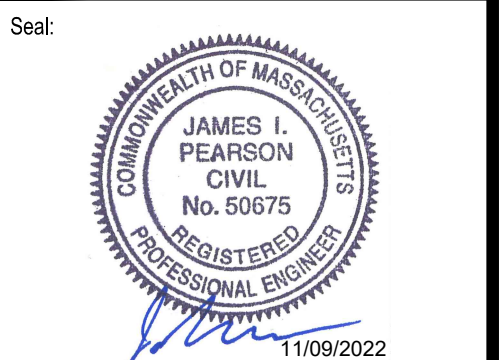
1 INFILTRATION SYSTEM (IS-1) SUBSURFACE CHAMBER SYSTEM DETAILS
SCALE: NTS

2 STORMWATER CHAMBER INSPECTION PORT
SCALE: NTS



* THE PART# 2712AG6IPKIT CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION

Revisions:		
No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM



Issued For:

FOR PERMITTING - NOT FOR CONSTRUCTION

Scale: AS SHOWN

Date: MAY 6, 2022

Drawn By: EJA

Reviewed By: CB

Approved By: JIP

W&S Project No.: ENG20-0865

W&S File No.:

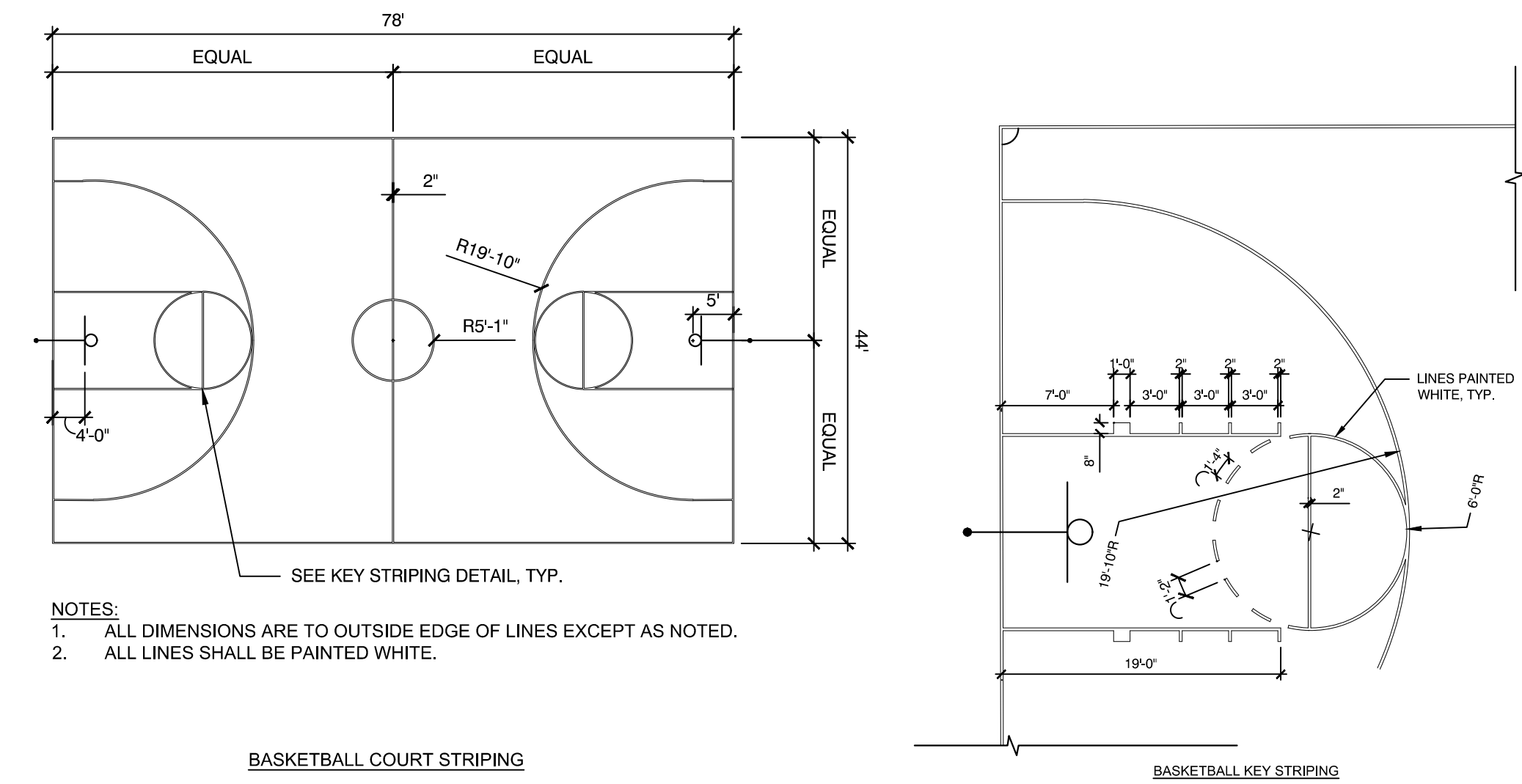
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**SITE
CONSTRUCTION
DETAILS**

Sheet Number:

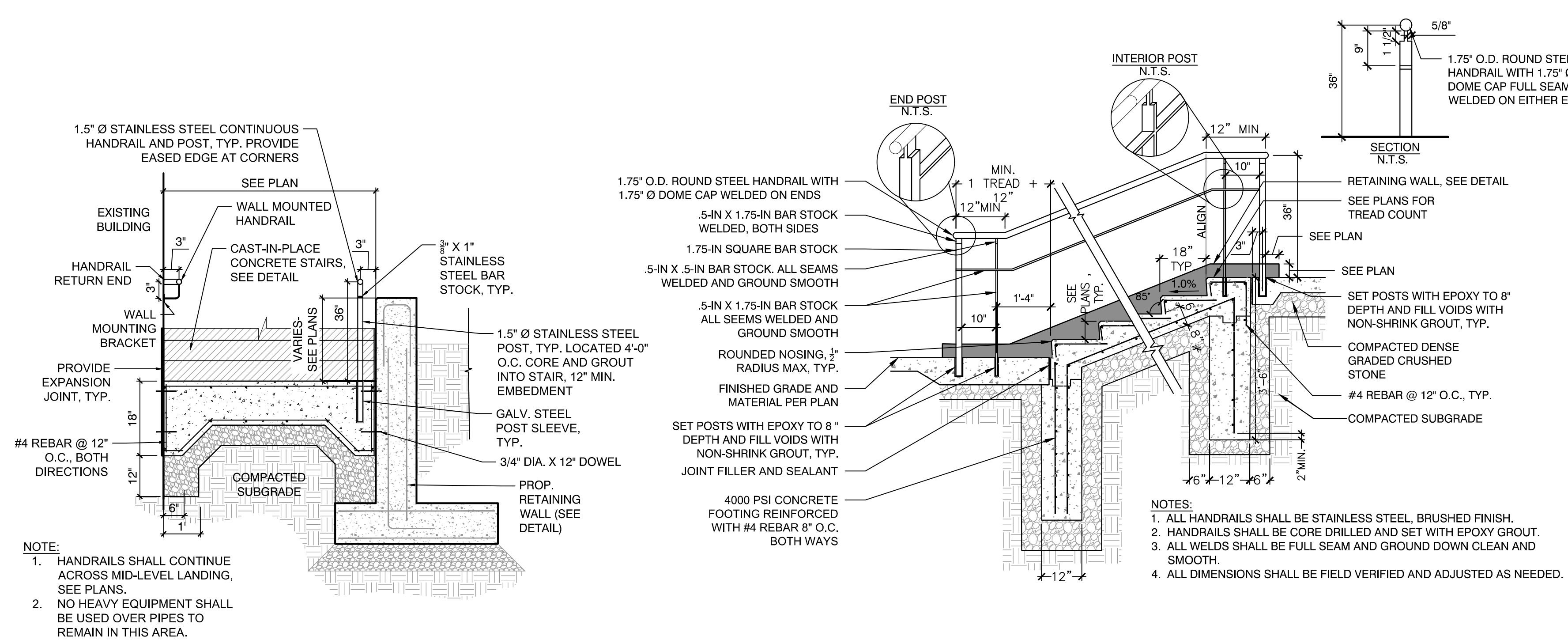
C507

MUTCD IDENTIFICATION NUMBER	TEXT	PANEL SIZE			NUMERALS & LETTERS				COLOR COMB.	NUMBER OF SIGNS REQUIRED	TOTAL AREA SQ. FT.	POST SIZE AND NUMBER REQUIRED	
		WIDTH	HEIGHT	CORNER RADII	BORDER WIDTH	MARGIN WIDTH	NUM. IN.	UPPER CASE					LOWER CASE
R1-1		30"	30"							WHITE ON RED	4	12.50	P5-1 1
R5-1		36"	36"							WHITE ON RED	5	18.00	P5-1 2
R6-1		36"	12"							BLACK ON WHITE	9	5.00	P5-1 2
R7-8		12"	18"							WHITE ON BLUE	5	4.50	P5-1 1
R7-8P		12"	18"							WHITE ON BLUE	4	4.50	P5-1 2

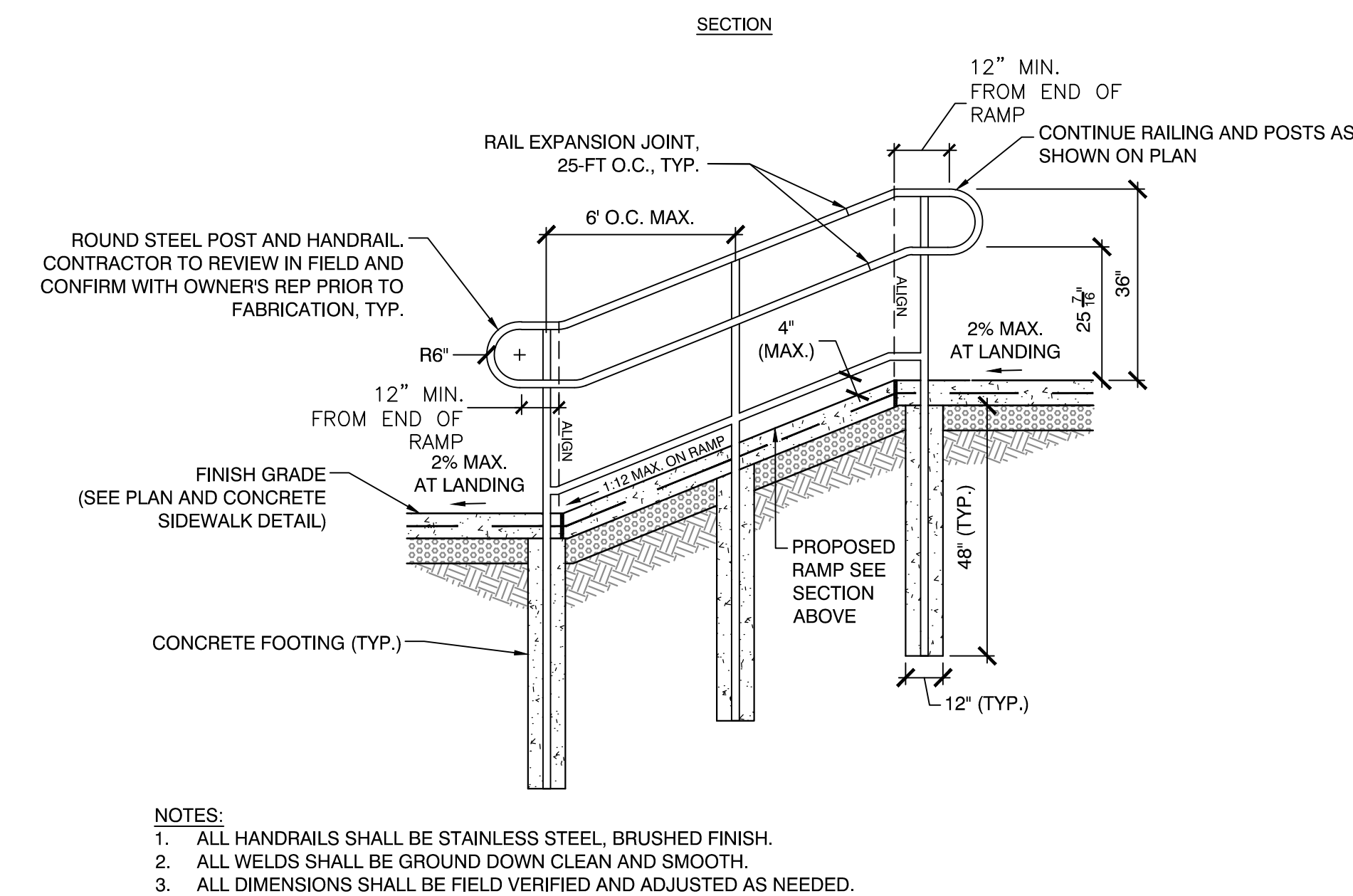
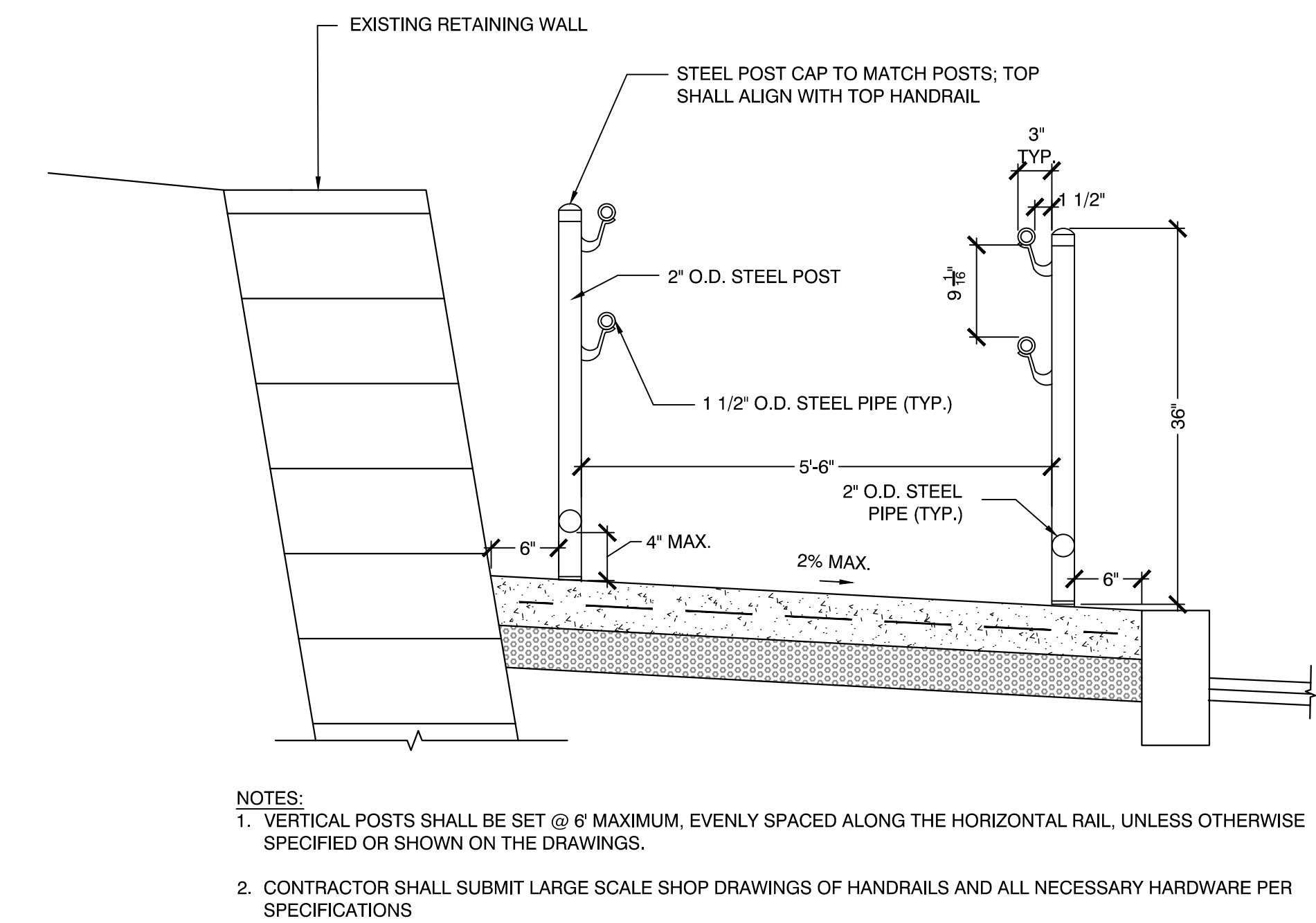
1 PERMANENT TRAFFIC SIGN SUMMARY
SCALE: N.T.S.



2 BASKETBALL COURT LAYOUT
SCALE: N.T.S.



3 CONCRETE STEP DETAIL
SCALE: N.T.S.



4 RAMP AND HANDRAIL
SCALE: N.T.S.

Consultants:

Revisions:

No.	Date	Description
1	10/06/22	REV PER CLIENT
2	11/09/22	REV PER CON COM

Seal:

JAMES I. PEARSON
CIVIL
No. 50675
REGISTERED PROFESSIONAL ENGINEER
11/09/2022

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Approved By: JIP
W&S Project No.: ENG20-0865
W&S File No.:

Drawing Title:
SITE CONSTRUCTION DETAILS

Sheet Number:
C509