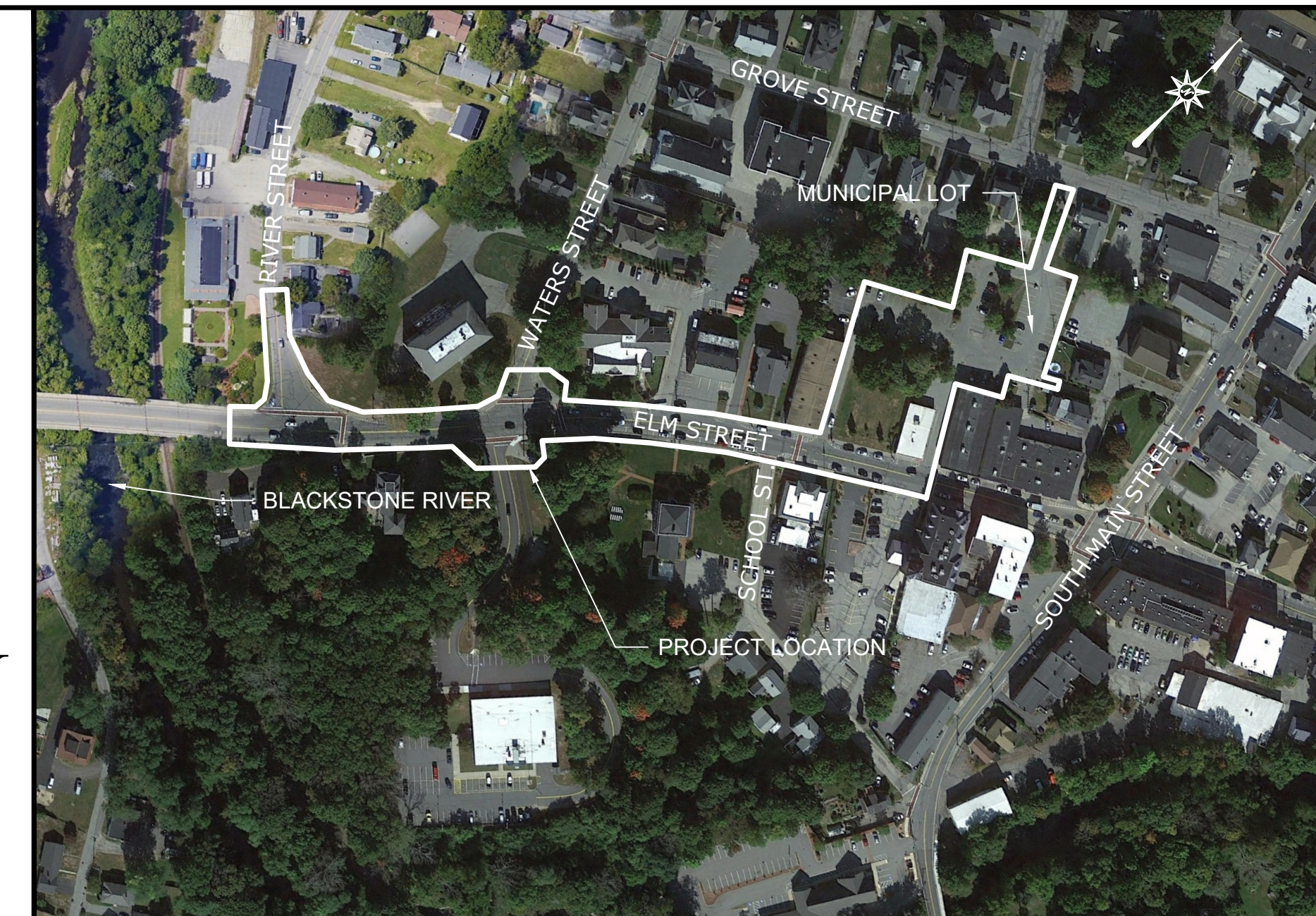


DESIGN DEVELOPMENT PLANS
 FOR
 IMPROVEMENTS TO MILLBURY DOWNTOWN
 PHASE 2
 ELM STREET
 FROM RIVER STREET TO
 MUNICIPAL LOT



VICINITY MAP
 SCALE: 1"=200'

TOWN OF
 Millbury, MASSACHUSETTS

PREPARED FOR:
 TOWN OF MILLBURY MASSACHUSETTS
 Elm Street
 Millbury, Massachusetts 01572

PREPARED BY:



ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYNG

220 Norwood Park South
 NORWOOD, MASSACHUSETTS, 02062
 (781) 619-9500

CONTENTS

EX-1 TO 4	TITLE SHEET
DN-01 TO 12	EXISTING CONDITIONS MAPS
MAT-01 TO MAT-05	MISCELLANEOUS DETAILS
LL-00 TO LL-04	MATERIALS PLANS
GD-01 TO GD-03	LANDSCAPE PLAN
LP-00 TO LP-03	GRADING PLANS
	LIGHTING PLANS

ENGINEER

PER _____
 NICHOLAS R. GIARDINA, P.E.
 MA PROFESSIONAL ENGINEER NO. 52085



DATE _____

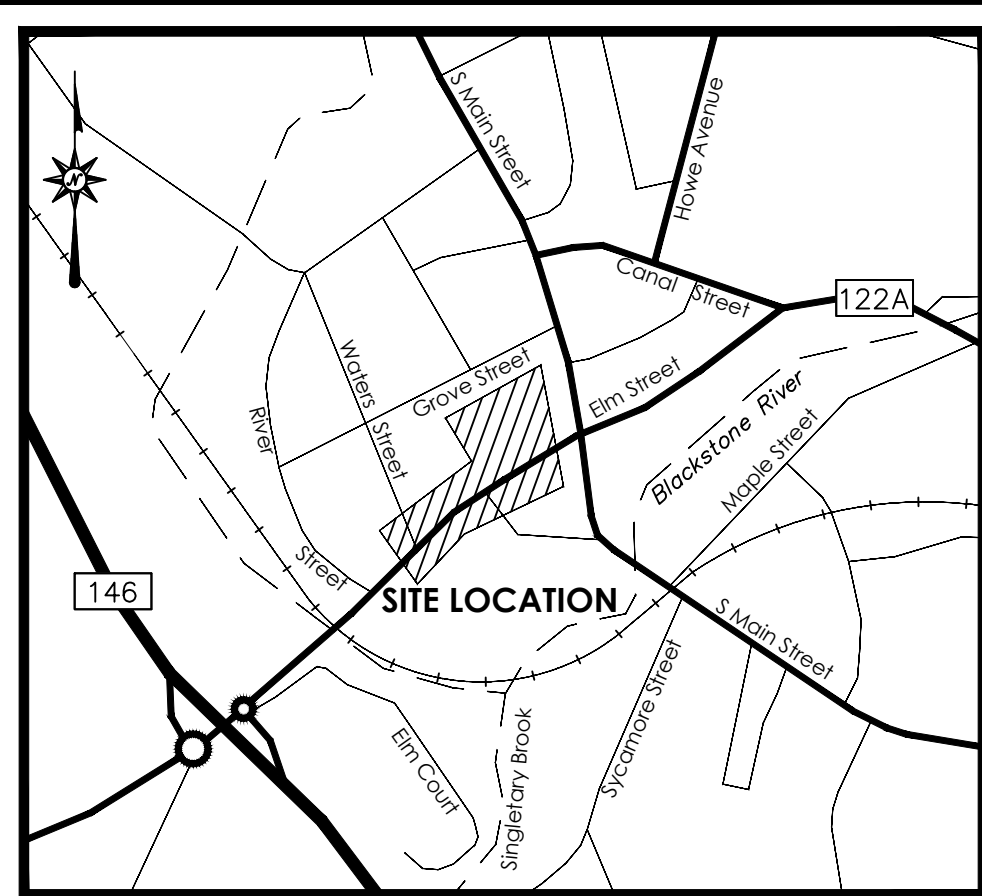
TOWN MANAGER

PER _____

DATE _____

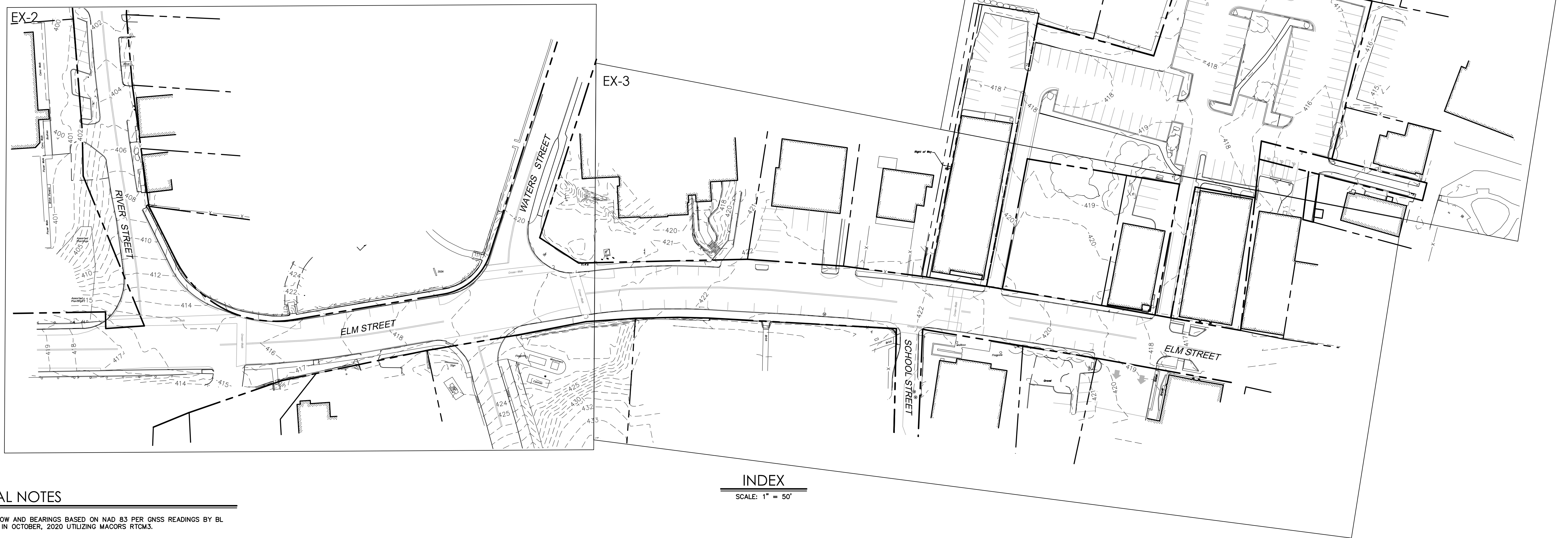
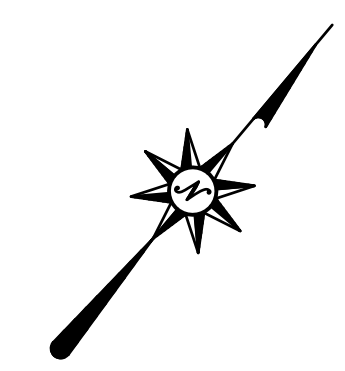
DATES

ISSUE DATE: May 26, 2021
 REVISION:



LOCATION MAP
NOT TO SCALE

LEGEND			
	Apparent Property Line		Handhole
	Easement Line		Electric Meter
	Setback Line		Utility Pole
	Treeline		Utility Pole w/ Light
	Brushline		Light Pole
	Major Contour		Bollard Light
	Minor Contour		Gas Valve
	Stone Wall		Cleanout
	Retaining Wall		Catch Basin
	Guide Rail		Manhole
	Fence		Fire Hydrant
	Overhead Wires		Water Valve
	Underground Electric Line		Water Meter
	Gas Line		Valve - Utility Type Unknown
	Sanitary Sewer		Sign
	Storm Sewer		Bollard
	Underground Telecommunications Line		Handicap Symbol
	Water Line		Monitoring Well
			Shrub
			Deciduous Tree
			Coniferous Tree



INDEX
SCALE: 1" = 50'

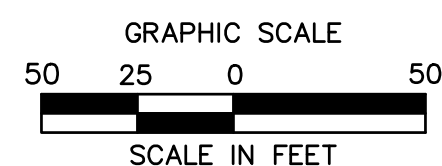
GENERAL NOTES

1. NORTH ARROW AND BEARINGS BASED ON NAD 83 PER GNSS READINGS BY BL COMPANIES IN OCTOBER, 2020 UTILIZING MACORS RTCM3.
2. ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 PER GNSS READINGS BY BL COMPANIES IN OCTOBER, 2020 UTILIZING MACORS RTCM3.
3. PROPERTY IS LOCATED IN FLOOD HAZARD AREA X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DEPICTED ON F.I.R.M. MAP NUMBER 25027C0806, PANEL 809 OF 1075, EFFECTIVE DATE: JULY 4, 2011.
4. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED THOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION.

SHEET NOTE

1. SEE SHEET EX-2 FOR MAP REFERENCES.

THIS SURVEY WAS PREPARED DURING THE COVID-19 PANDEMIC OF 2020-2021 AT WHICH TIME PHYSICAL ACCESS TO THE LOCAL LAND RECORDS AND OTHER MUNICIPAL OFFICES HAS NOT BEEN AVAILABLE. AS A RESULT, THIS SURVEY HAS BEEN BASED ON TITLE RESEARCH DERIVED FROM ON-LINE RECORDS AND OTHER SOURCES AND IS SUBJECT TO THE RESULTS OF A PROPER TITLE SEARCH.



I CERTIFY THAT THE PROPERTY LINES SHOWN HEREON 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 OWNERSHIPS OR FOR NEW WAYS ARE SHOWN.

I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

DATE: _____ SIGNED: JENNIFER MARKS P.L.S. #38712

REVISIONS
No. Date

Surveyed T.N.,J.W.,H.T.
Drawn P.N.
Reviewed P.J.C.
Scale 1"=50'
Project No. 2001478
Date 01/08/2021
Field Book 543
CAD File: [redacted]

Title
EXISTING
CONDITIONS
MAP

Sheet No. 1 of 4

EX-1

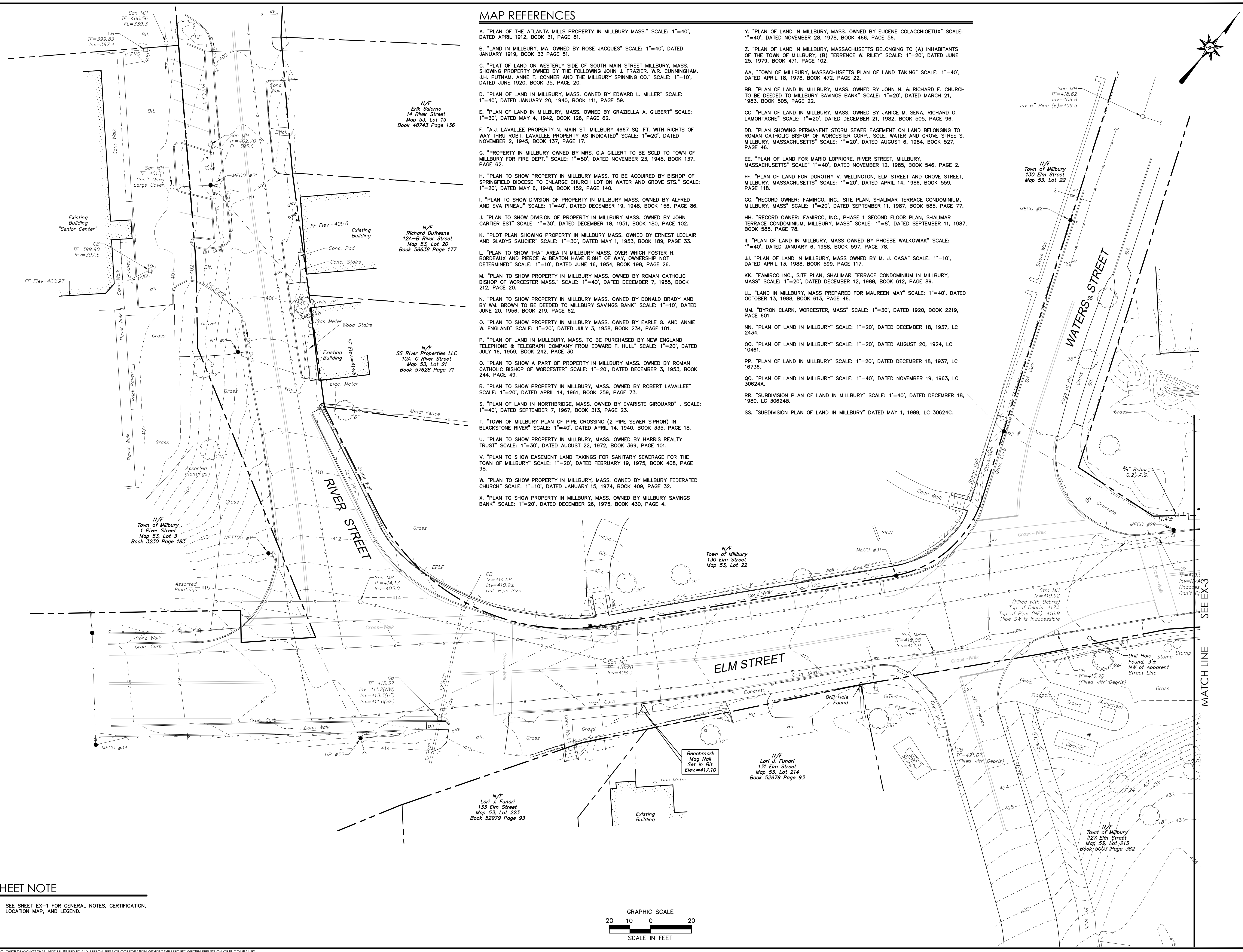
REVISIONS	Date	Desc.
No.		

Surveyed	T.N.J.W.,H.T.
Drawn	T.N.
Reviewed	P.J.C.
Scale	1"=20'
Project No.	2001478
Date	01/08/2021
Field Book	543
CAD File:	01a1.dwg

Title
EXISTING CONDITIONS MAP

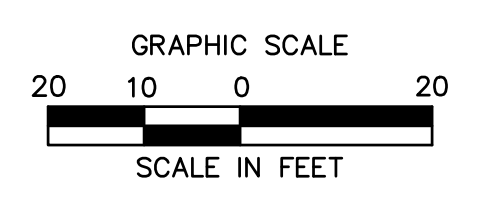
MAP REFERENCES

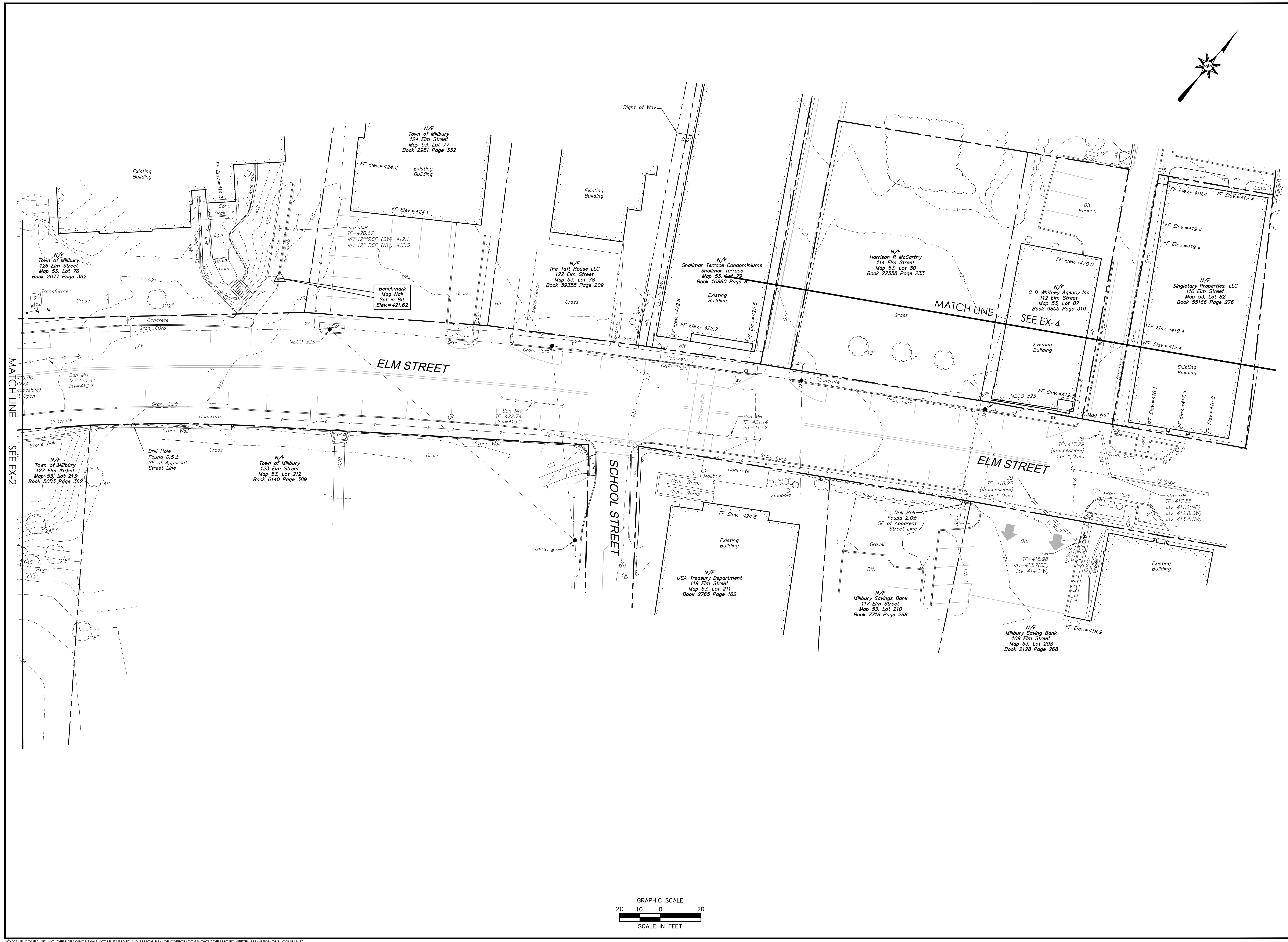
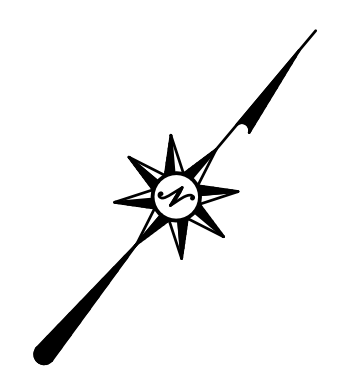
- A. "PLAN OF THE ATLANTA MILLS PROPERTY IN MILLBURY MASS." SCALE: 1"=40', DATED APRIL 1912, BOOK 31, PAGE 81.
- B. "LAND IN MILLBURY, MA. OWNED BY ROSE JACQUES" SCALE: 1"=40', DATED JANUARY 1919, BOOK 33 PAGE 51.
- C. "PLAT OF LAND ON WESTERLY SIDE OF SOUTH MAIN STREET MILLBURY, MASS. SHOWING PROPERTY OWNED BY THE FOLLOWING JOHN J. FRAZIER, W.R. CUNNINGHAM, J.H. PUTNAM, ANNE T. CONNER AND THE MILLBURY SPINNING CO." SCALE: 1"=10', DATED JUNE 1920, BOOK 35, PAGE 20.
- D. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY EDWARD L. MILLER" SCALE: 1"=40', DATED JANUARY 20, 1940, BOOK 111, PAGE 59.
- E. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY GRAZIELLA A. GILBERT" SCALE: 1"=30', DATED MAY 4, 1942, BOOK 126, PAGE 62.
- F. "A.J. LAVALLEE PROPERTY N. MAIN ST. MILLBURY 4667 SQ. FT. WITH RIGHTS OF WAY THRU ROBT. LAVALLEE PROPERTY AS INDICATED" SCALE: 1"=20', DATED NOVEMBER 2, 1945, BOOK 137, PAGE 17.
- G. "PROPERTY IN MILLBURY OWNED BY MRS. G.A. GILLERT TO BE SOLD TO TOWN OF MILLBURY FOR FIRE DEPT." SCALE: 1"=50', DATED NOVEMBER 23, 1945, BOOK 137, PAGE 62.
- H. "PLAN TO SHOW PROPERTY IN MILLBURY MASS. TO BE ACQUIRED BY BISHOP OF SPRINGFIELD DIOCESE TO ENLARGE CHURCH LOT ON WATER AND GROVE STS." SCALE: 1"=20', DATED MAY 6, 1948, BOOK 152, PAGE 140.
- I. "PLAN TO SHOW DIVISION OF PROPERTY IN MILLBURY MASS. OWNED BY ALFRED AND EVA PINEAU" SCALE: 1"=40', DATED DECEMBER 19, 1948, BOOK 156, PAGE 86.
- J. "PLAN TO SHOW DIVISION OF PROPERTY IN MILLBURY MASS. OWNED BY JOHN CARTIER EST" SCALE: 1"=30', DATED DECEMBER 18, 1951, BOOK 180, PAGE 102.
- K. "PLOT PLAN SHOWING PROPERTY IN MILLBURY MASS. OWNED BY ERNEST LECLAIR AND GLADYS SAUCIER" SCALE: 1"=30', DATED MAY 1, 1953, BOOK 189, PAGE 33.
- L. "PLAN TO SHOW THAT AREA IN MILLBURY MASS. OVER WHICH FOSTER H. BORDEAUX AND PIERCE & BEATON HAVE RIGHT OF WAY, OWNERSHIP NOT DETERMINED" SCALE: 1"=10', DATED JUNE 16, 1954, BOOK 198, PAGE 26.
- M. "PLAN TO SHOW PROPERTY IN MILLBURY MASS. OWNED BY ROMAN CATHOLIC BISHOP OF WORCESTER MASS." SCALE: 1"=40', DATED DECEMBER 7, 1955, BOOK 212, PAGE 20.
- N. "PLAN TO SHOW PROPERTY IN MILLBURY MASS. OWNED BY DONALD BRADY AND BY WM. BROWN TO BE DEEDED TO MILLBURY SAVINGS BANK" SCALE: 1"=10', DATED JUNE 20, 1956, BOOK 219, PAGE 62.
- O. "PLAN TO SHOW PROPERTY IN MILLBURY MASS. OWNED BY EARLE G. AND ANNIE W. ENGLAND" SCALE: 1"=20', DATED JULY 3, 1958, BOOK 234, PAGE 101.
- P. "PLAN OF LAND IN MILLBURY, MASS. TO BE PURCHASED BY NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY FROM EDWARD F. HULL" SCALE: 1"=20', DATED JULY 16, 1959, BOOK 242, PAGE 30.
- Q. "PLAN TO SHOW A PART OF PROPERTY IN MILLBURY MASS. OWNED BY ROMAN CATHOLIC BISHOP OF WORCESTER" SCALE: 1"=20', DATED DECEMBER 3, 1953, BOOK 244, PAGE 49.
- R. "PLAN TO SHOW PROPERTY IN MILLBURY, MASS. OWNED BY ROBERT LAVALLEE" SCALE: 1"=20', DATED APRIL 14, 1961, BOOK 259, PAGE 73.
- S. "PLAN OF LAND IN NORTHBRIDGE, MASS. OWNED BY EVARISTE GIROUARD" SCALE: 1"=40', DATED SEPTEMBER 7, 1967, BOOK 313, PAGE 23.
- T. "TOWN OF MILLBURY PLAN OF PIPE CROSSING (2 PIPE SEWER SIPHON) IN BLACKSTONE RIVER" SCALE: 1"=40', DATED APRIL 14, 1940, BOOK 335, PAGE 18.
- U. "PLAN TO SHOW PROPERTY IN MILLBURY, MASS. OWNED BY HARRIS REALTY TRUST" SCALE: 1"=30', DATED AUGUST 22, 1972, BOOK 369, PAGE 101.
- V. "PLAN TO SHOW EASEMENT LAND TAKINGS FOR SANITARY SEWERAGE FOR THE TOWN OF MILLBURY" SCALE: 1"=20', DATED FEBRUARY 19, 1975, BOOK 408, PAGE 98.
- W. "PLAN TO SHOW PROPERTY IN MILLBURY, MASS. OWNED BY MILLBURY FEDERATED CHURCH" SCALE: 1"=10', DATED JANUARY 15, 1974, BOOK 409, PAGE 32.
- X. "PLAN TO SHOW PROPERTY IN MILLBURY, MASS. OWNED BY MILLBURY SAVINGS BANK" SCALE: 1"=20', DATED DECEMBER 26, 1975, BOOK 430, PAGE 4.
- Y. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY EUGENE COLACCHIOETUX" SCALE: 1"=40', DATED NOVEMBER 28, 1978, BOOK 466, PAGE 56.
- Z. "PLAN OF LAND IN MILLBURY, MASSACHUSETTS BELONGING TO (A) INHABITANTS OF THE TOWN OF MILLBURY, (B) TERRENCE W. RILEY" SCALE: 1"=20', DATED JUNE 25, 1979, BOOK 471, PAGE 102.
- AA. "TOWN OF MILLBURY, MASSACHUSETTS PLAN OF LAND TAKING" SCALE: 1"=40', DATED APRIL 18, 1978, BOOK 472, PAGE 22.
- BB. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY JOHN N. & RICHARD E. CHURCH TO BE DEEDED TO MILLBURY SAVINGS BANK" SCALE: 1"=20', DATED MARCH 21, 1983, BOOK 505, PAGE 22.
- CC. "PLAN OF LAND IN MILLBURY, MASS. OWNED BY JANICE M. SENA, RICHARD O. LAMONTAGNE" SCALE: 1"=20', DATED DECEMBER 21, 1982, BOOK 505, PAGE 96.
- DD. "PLAN SHOWING PERMANENT STORM SEWER EASEMENT ON LAND BELONGING TO ROMAN CATHOLIC BISHOP OF WORCESTER CORP., SOLE, WATER AND GROVE STREETS, MILLBURY, MASSACHUSETTS" SCALE: 1"=20', DATED AUGUST 6, 1984, BOOK 527, PAGE 46.
- EE. "PLAN OF LAND FOR MARIO LOPRIORE, RIVER STREET, MILLBURY, MASSACHUSETTS" SCALE: 1"=40', DATED NOVEMBER 12, 1985, BOOK 546, PAGE 2.
- FF. "PLAN OF LAND FOR DOROTHY V. WELLINGTON, ELM STREET AND GROVE STREET, MILLBURY, MASSACHUSETTS" SCALE: 1"=20', DATED APRIL 14, 1986, BOOK 559, PAGE 118.
- GG. "RECORD OWNER: FAMIRCO, INC., SITE PLAN, SHALIMAR TERRACE CONDOMINIUM, MILLBURY, MASS" SCALE: 1"=20', DATED SEPTEMBER 11, 1987, BOOK 585, PAGE 77.
- HH. "RECORD OWNER: FAMIRCO, INC., PHASE 1 SECOND FLOOR PLAN, SHALIMAR TERRACE CONDOMINIUM, MILLBURY, MASS" SCALE: 1"=8', DATED SEPTEMBER 11, 1987, BOOK 585, PAGE 78.
- II. "PLAN OF LAND IN MILLBURY, MASS OWNED BY PHOEBE WALKOWIAK" SCALE: 1"=40', DATED JANUARY 6, 1988, BOOK 597, PAGE 78.
- JJ. "PLAN OF LAND IN MILLBURY, MASS OWNED BY M. J. CASA" SCALE: 1"=10', DATED APRIL 13, 1988, BOOK 599, PAGE 117.
- KK. "FAMIRCO INC., SITE PLAN, SHALIMAR TERRACE CONDOMINIUM IN MILLBURY, MASS" SCALE: 1"=20', DATED DECEMBER 12, 1988, BOOK 612, PAGE 89.
- LL. "LAND IN MILLBURY, MASS PREPARED FOR MAUREEN MAY" SCALE: 1"=40', DATED OCTOBER 13, 1988, BOOK 613, PAGE 46.
- MM. "BYRON CLARK, WORCESTER, MASS" SCALE: 1"=30', DATED 1920, BOOK 2219, PAGE 601.
- NN. "PLAN OF LAND IN MILLBURY" SCALE: 1"=20', DATED DECEMBER 18, 1937, LC 2434.
- OO. "PLAN OF LAND IN MILLBURY" SCALE: 1"=20', DATED AUGUST 20, 1924, LC 10461.
- PP. "PLAN OF LAND IN MILLBURY" SCALE: 1"=20', DATED DECEMBER 18, 1937, LC 16736.
- QQ. "PLAN OF LAND IN MILLBURY" SCALE: 1"=40', DATED NOVEMBER 19, 1963, LC 30624A.
- RR. "SUBDIVISION PLAN OF LAND IN MILLBURY" SCALE: 1"=40', DATED DECEMBER 18, 1980, LC 30624B.
- SS. "SUBDIVISION PLAN OF LAND IN MILLBURY" DATED MAY 1, 1989, LC 30624C.



SHEET NOTE

- 1. SEE SHEET EX-1 FOR GENERAL NOTES, CERTIFICATION, LOCATION MAP, AND LEGEND.





MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MASSACHUSETTS

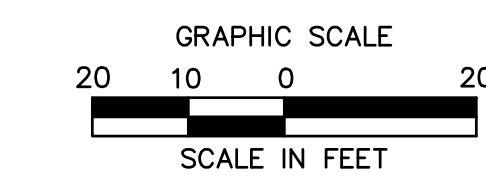
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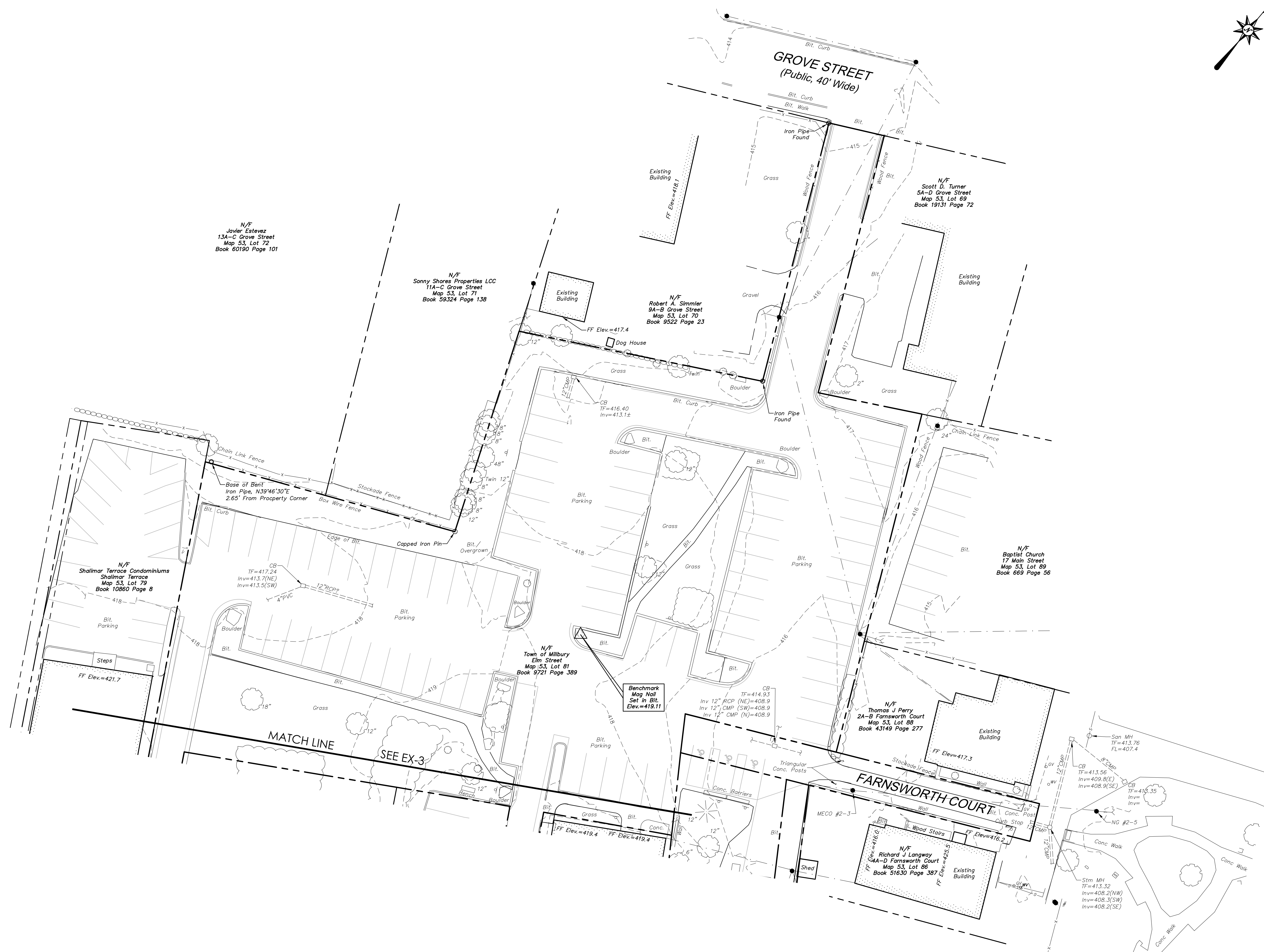
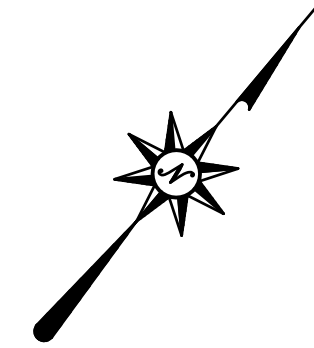
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 Drawn T.N.
 Reviewed P.J.C.
 Scale 1"=20'
 Project No. 2001478
 Date 01/08/2021
 Field Book 543
 CAD File: [redacted]

Title
**EXISTING
 CONDITIONS
 MAP**

Sheet No. 3 of 4

EX-3





N/F
Javier Estevez
13A-C Grove Street
Map 53, Lot 72
Book 60190 Page 101

N/F
Sonny Shores Properties LLC
11A-C Grove Street
Map 53, Lot 71
Book 59324 Page 138

N/F
Robert A. Simmler
9A-B Grove Street
Map 53, Lot 70
Book 9522 Page 23

N/F
Scott D. Turner
5A-D Grove Street
Map 53, Lot 69
Book 19131 Page 72

N/F
Shalimar Terrace Condominiums
Shalimar Terrace
Map 53, Lot 79
Book 10890 Page 8

N/F
Town of Millbury
Elm Street
Map 53, Lot 81
Book 9721 Page 389

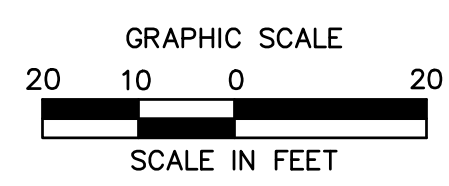
N/F
Baptist Church
17 Main Street
Map 53, Lot 89
Book 669 Page 56

N/F
Thomas J. Perry
2A-B Farnsworth Court
Map 53, Lot 88
Book 43149 Page 277

N/F
Richard J. Langway
4A-D Farnsworth Court
Map 53, Lot 86
Book 51630 Page 387

Benchmark
Mag Nail
Set in Bit.
Elev.=419.11

MATCH LINE
SEE EX-3



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MASSACHUSETTS

REVISIONS	Date	By
No.		

Surveyed T.N., J.W., H.T.
 Drawn T.N.
 Reviewed P.J.C.
 Scale 1"=20'
 Project No. 2001478
 Date 01/08/2021
 Field Book 543
 CAD File:

Title
**EXISTING
CONDITIONS
MAP**

Sheet No. 4 of 4

EX-4

EROSION & SEDIMENT CONTROL NOTES:

1. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT INTO PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION. REFER TO PLANS FOR APPROXIMATE LOCATION OF EROSION AND SEDIMENT CONTROL. REFER TO SPECIFICATION AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
3. CONTRACTOR SHALL MEET ALL THE STATE OF MASSACHUSETTS AND THE TOWN OF MILLBURY WETLAND ORDINANCE REGULATIONS FOR SEDIMENT AND EROSION CONTROL.
4. 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.
5. ALL CATCH BASINS AND DRAIN GRATES WITHIN THE LIMIT OF WORK SHALL BE PROTECTED WITH SILT SACKS DURING THE ENTIRE DURATION OF CONSTRUCTION
6. EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE GRADING AND DRAINAGE PLANS, NOTES, DETAILS, AND SPECIFICATIONS.
7. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY THE OWNER'S REPRESENTATIVE AND MASSACHUSETTS D.E.P REQUIREMENTS.
8. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC/ PRIVATE ROADS.
9. ALL MATERIAL HAULING VEHICLES SHALL BE COMPLETELY COVERED PRIOR TO LEAVING THE SITE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR WHEEL CLEANING OF ALL CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE. CONTRACTOR SHALL ENSURE THAT MATERIAL HAULING VEHICLES REMAIN ON PAVED SURFACES AS MUCH AS POSSIBLE.
11. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" PREPARED BY MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
12. ANY EROSION AND SEDIMENT CONTROL MEASURES FOR THE STABILIZATION OF SLOPES ARE TEMPORARY FOR CONSTRUCTION PHASES ONLY. SEE GRADING PLAN FOR FINAL STABILIZATION OF SLOPES.
13. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
14. DAILY INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSES IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
15. ALL SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAINAGE SYSTEM.
16. ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK SHALL BE PROTECTED.
17. AFTER SIGNIFICANT RAINFALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
18. ALL STOCKPILES SHALL BE PROTECTED. STOCKPILES SHALL BE PROTECTED FROM CONTACT WITH ONSITE STORMWATER RUNOFF USING TEMPORARY PERIMETER SEDIMENT BARRIERS. A COVER (TARP) OR APPROPRIATE TEMPORARY STABILIZATION WILL BE PROVIDED TO MINIMIZE SEDIMENT DISCHARGE.
19. STABILIZED PORTIONS OF A SITE SHALL BE INSPECTED AT LEAST ONCE PER MONTH.
20. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.
21. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. TOPSOIL NOT NEEDED AFTER COMPLETION OF ALL FINAL TOPSOIL SPREADING AND GRASSING SHALL BE REMOVED FROM THE SITE AND LEGALLY RECYCLED OR DISPOSED OF. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
22. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS AND ANY DENUDED SURFACE WHICH WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE MULCHED WITH STRAW. MULCH SHALL BE SPREAD UNIFORMLY IN A CONTINUOUS BLANKET OF SUFFICIENT THICKNESS TO COMPLETELY HIDE THE SOIL FROM VIEW.
23. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROJECT PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION ACTIVITIES.
24. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION.
25. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE THE MINIMUM PROVISIONS NECESSARY. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORSEEN EROSION PROBLEMS, AT NO ADDITIONAL EXPENSE TO THE OWNER.
26. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCES.
27. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED PRIOR TO THE BEGINNING OF CONSTRUCTION CONSISTENT WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE WITH CONDITIONS OF THE swPPP THROUGHOUT CONSTRUCTION.

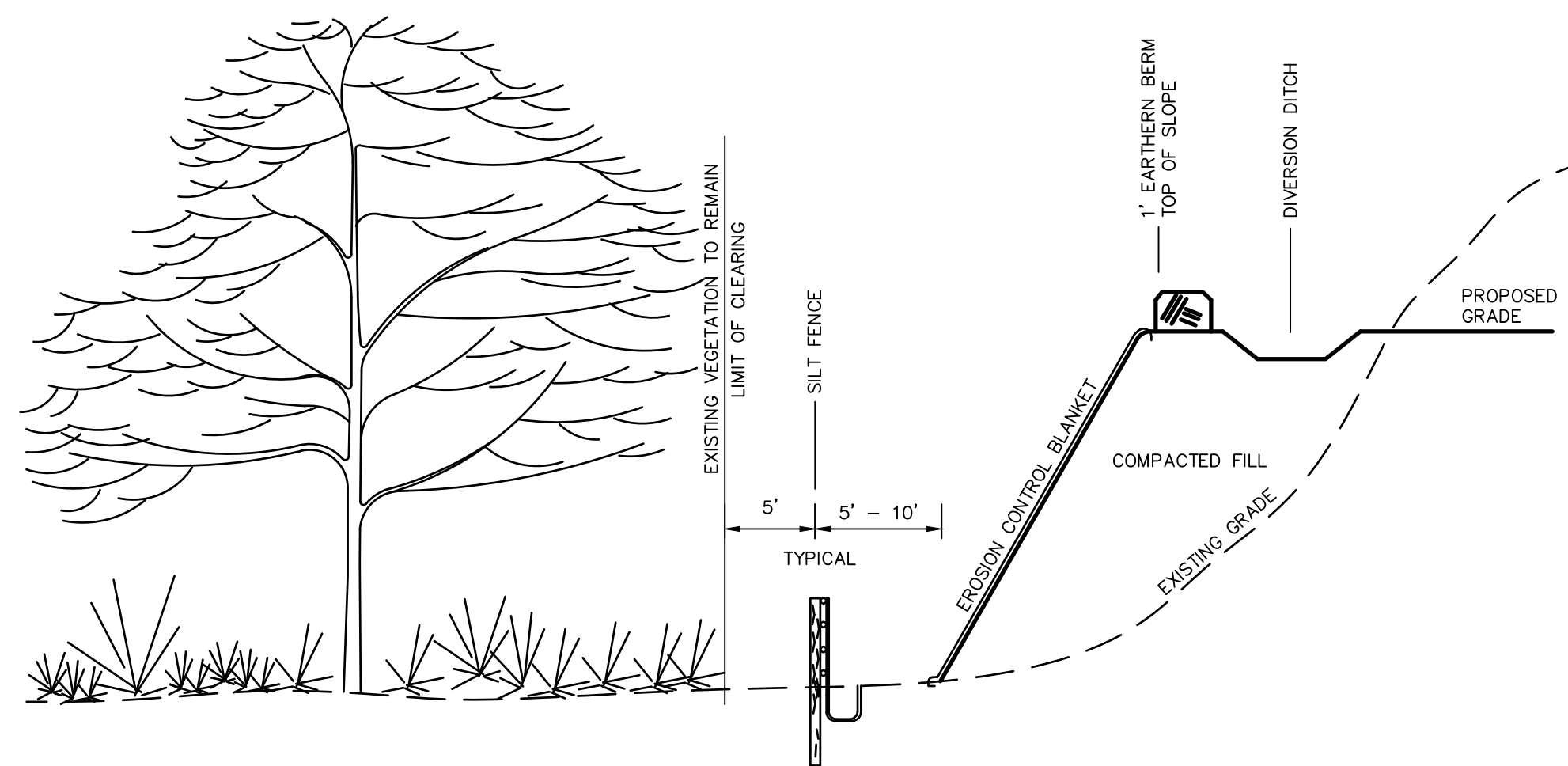


220 Norwood Park South
 Norwood, MA 02062
 (781) 619-9500

MILLBURY DOWNTOWN PHASE 2
 ELM STREET
 MILLBURY, MA

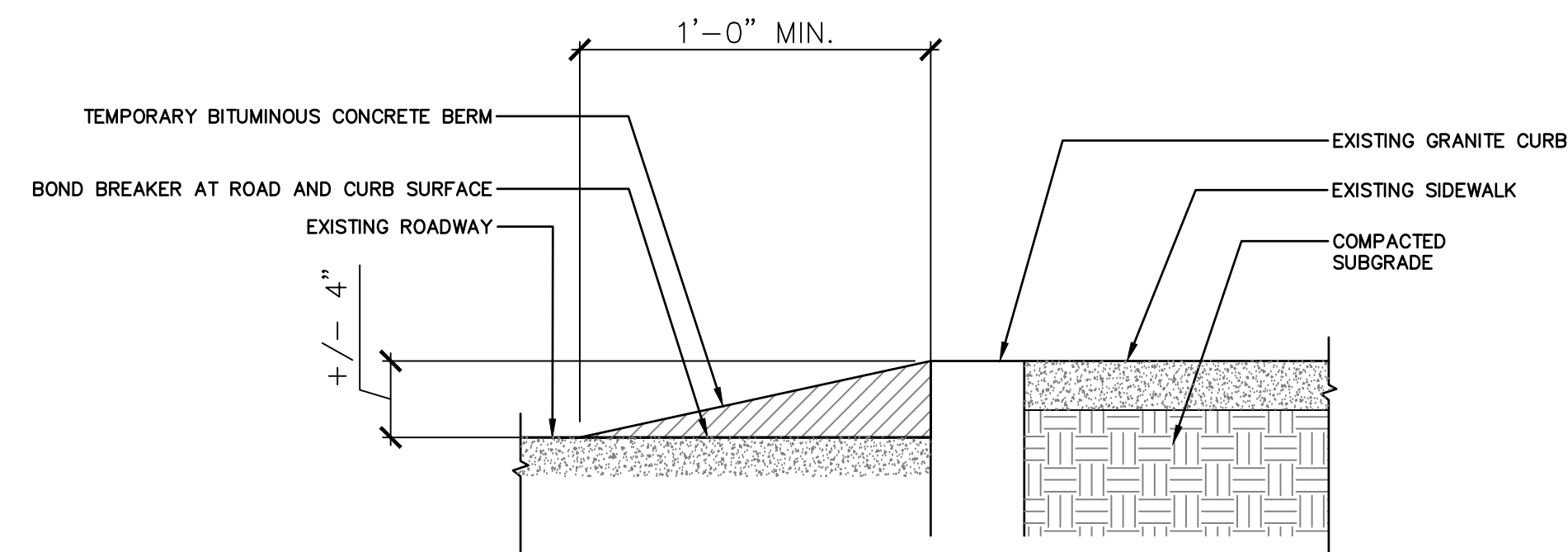
REVISIONS	
No.	Date
Desc.	
Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	May, 2021
CAD File:	DNZ00147801
Title	
SEDIMENTATION & EROSION CONTROL NOTES	
Sheet No.	

DN-02



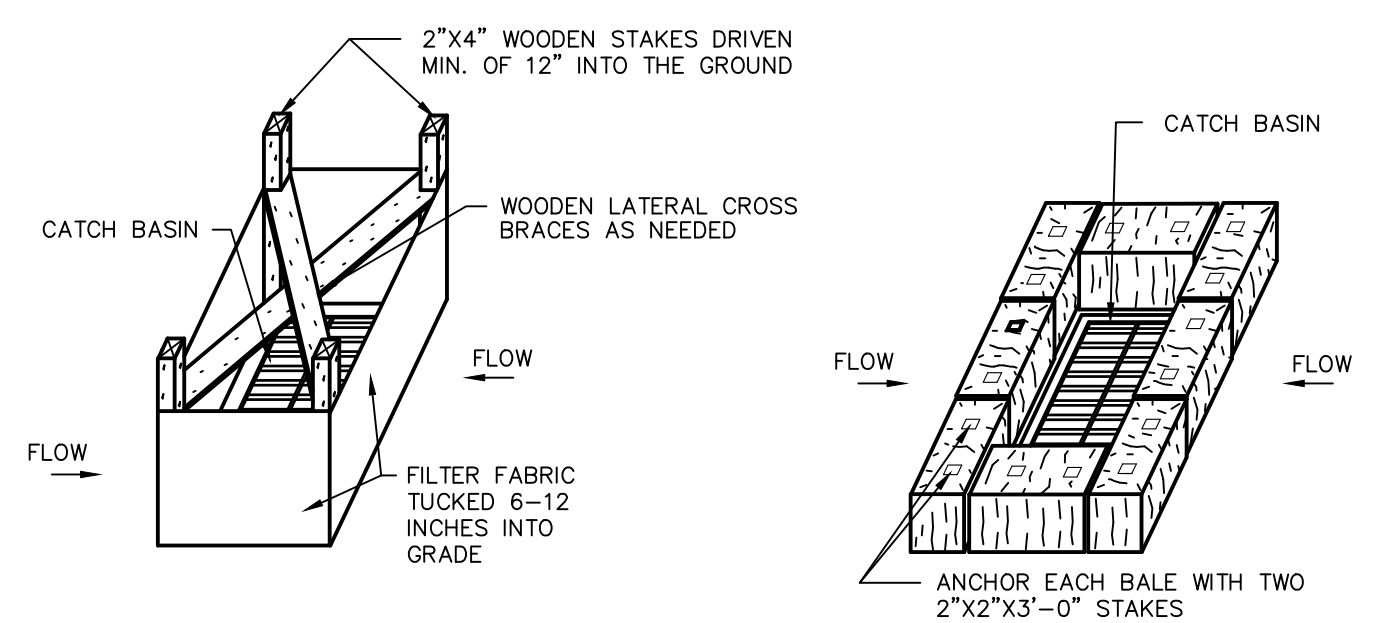
TYPICAL EROSION CONTROL ON SLOPES

N.T.S. BLEC-011



TEMPORARY MOUNTING CURB

N.T.S.



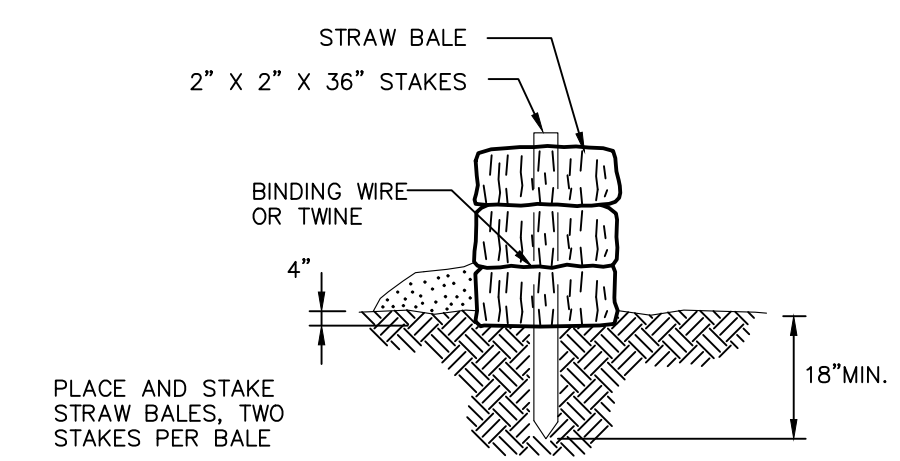
SILT FENCE INSTALLATION AT CATCH BASINS AT LOW POINTS

STORMWATER INLETS WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED. SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH STORM EVENT.

HAY BALE FILTER INSTALLATION AT CATCH BASIN AT LOW POINTS

CATCH BASIN EROSION CONTROL

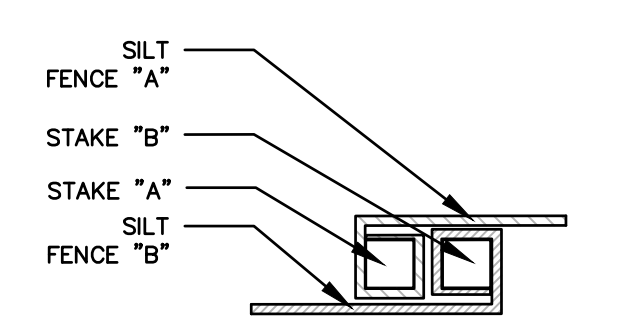
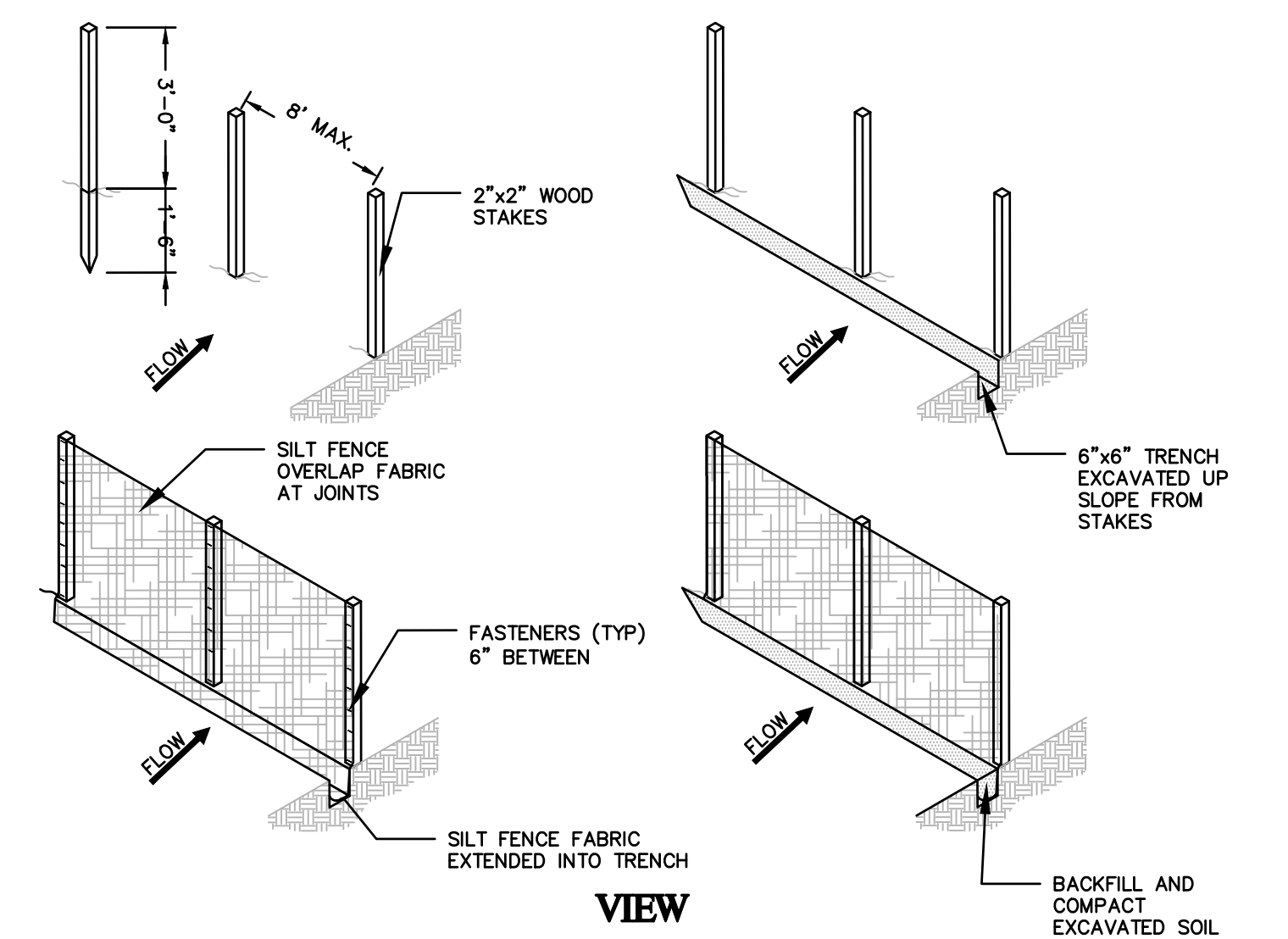
N.T.S. BLEC-012



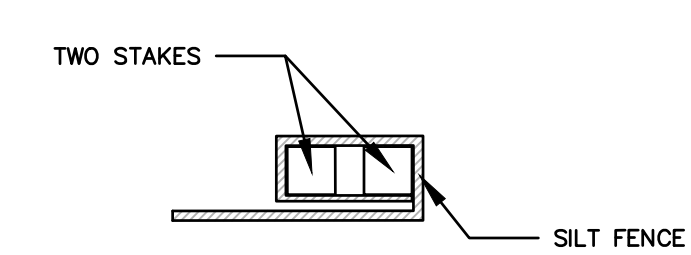
STRAW BALE BARRIERS SHOULD NOT BE USED FOR MORE THAN 3 MONTHS. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE BARRIER. ANY SECTION OF STRAW BALE BARRIER WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

STRAW BALE DETAIL

N.T.S. BLEC-007



JOINT DETAIL

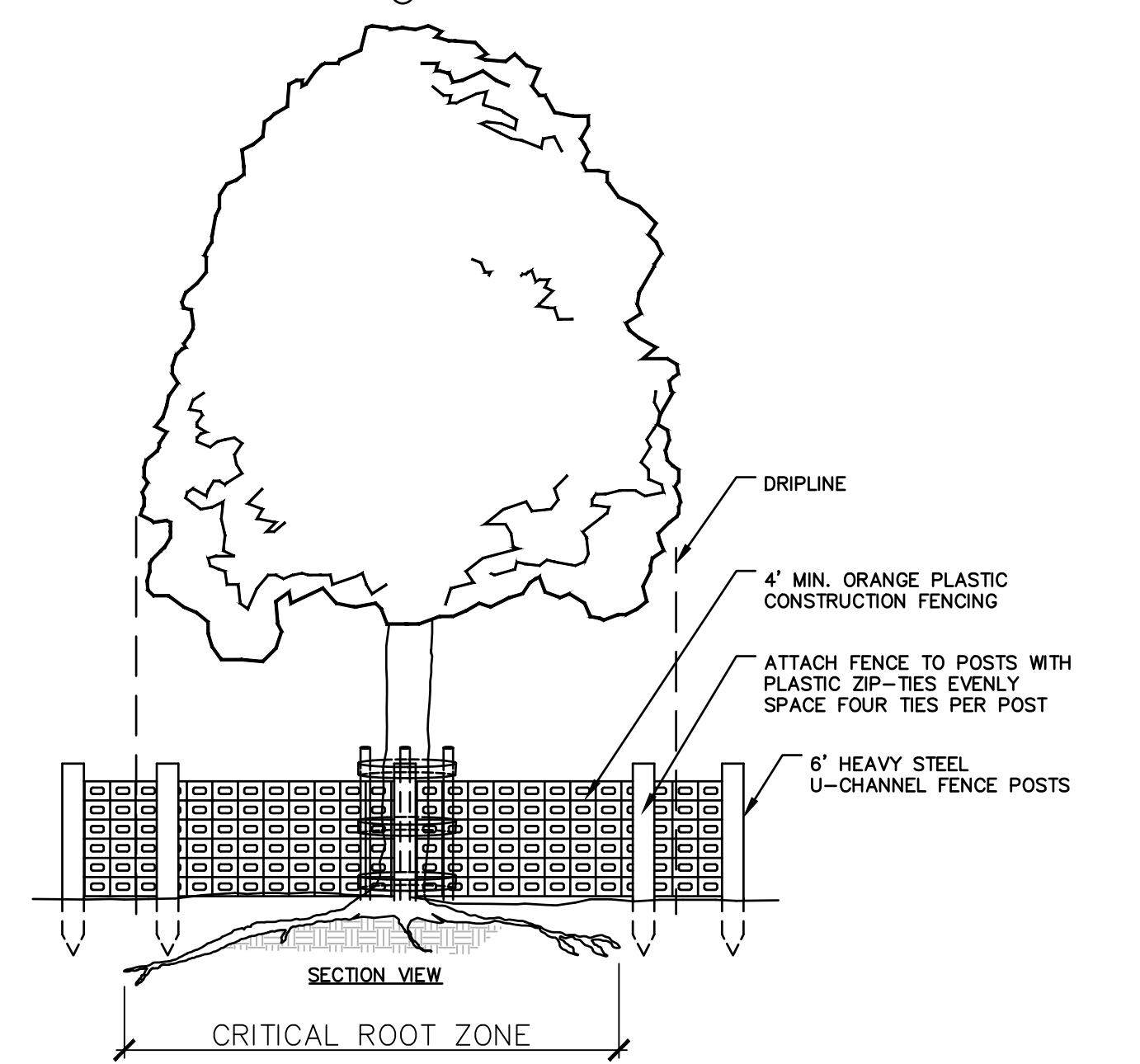
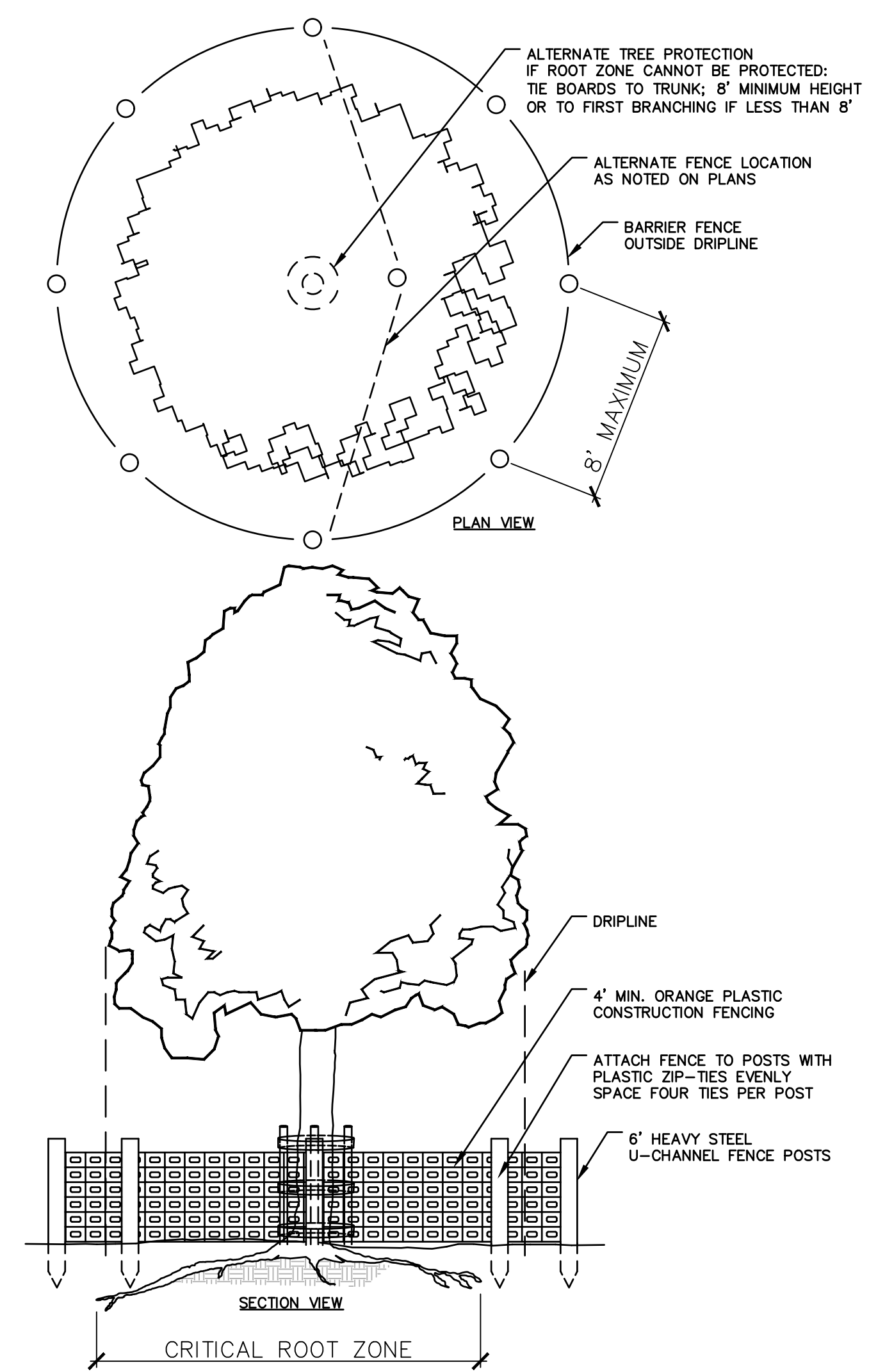


END JOINT DETAIL

INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT. MAINTENANCE SHALL OCCUR WHEN NECESSARY AND PER SEDIMENT AND EROSION CONTROL NOTES. SILT FENCE SHALL BE REPLACED EVERY 6 MONTHS AND STACKS SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY. SILT FENCE SHALL BE INSPECTED WEEKLY AND ALL MAINTENANCE ISSUES SHALL BE CORRECT AT THAT TIME.

SILT FENCE BARRIER

N.T.S.



TREE PROTECTION

N.T.S.

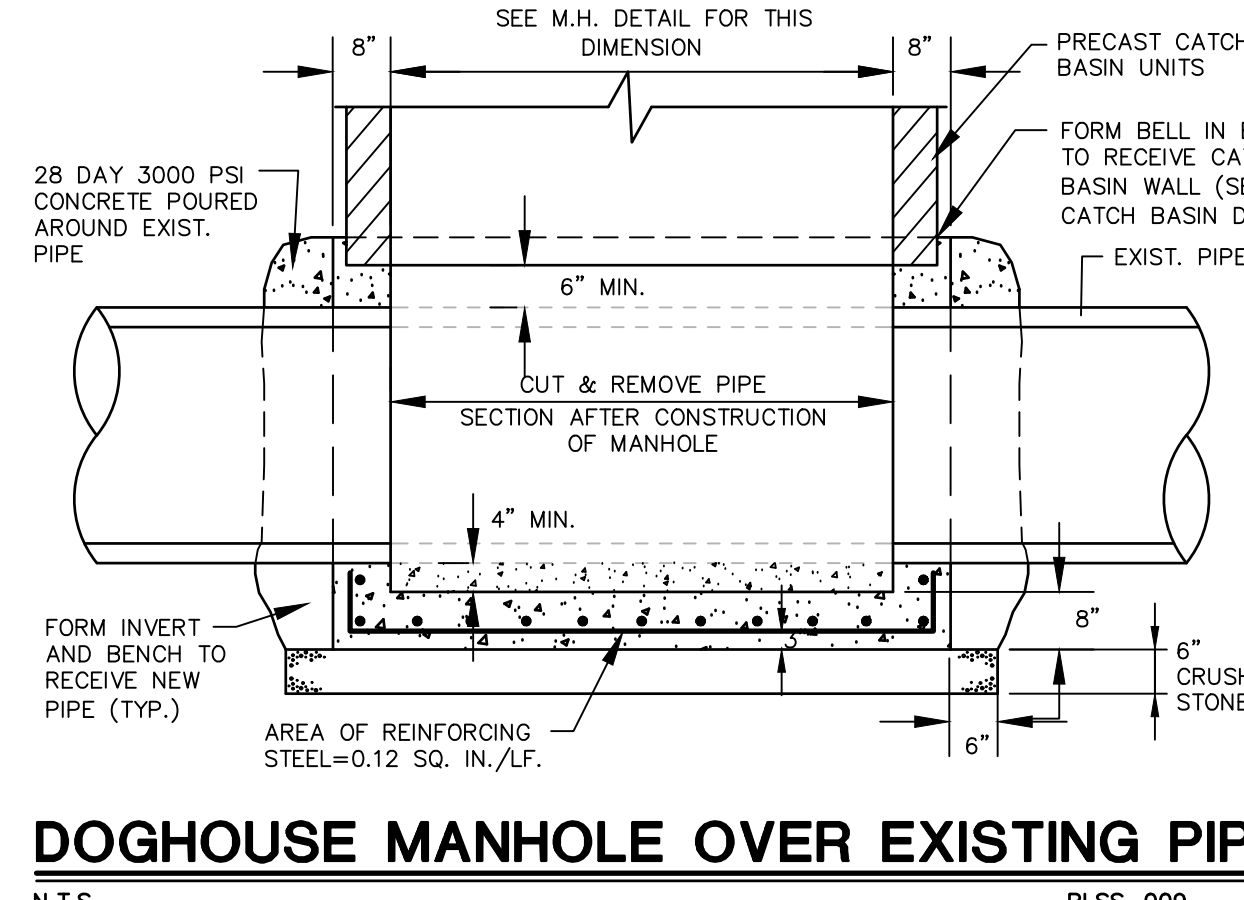
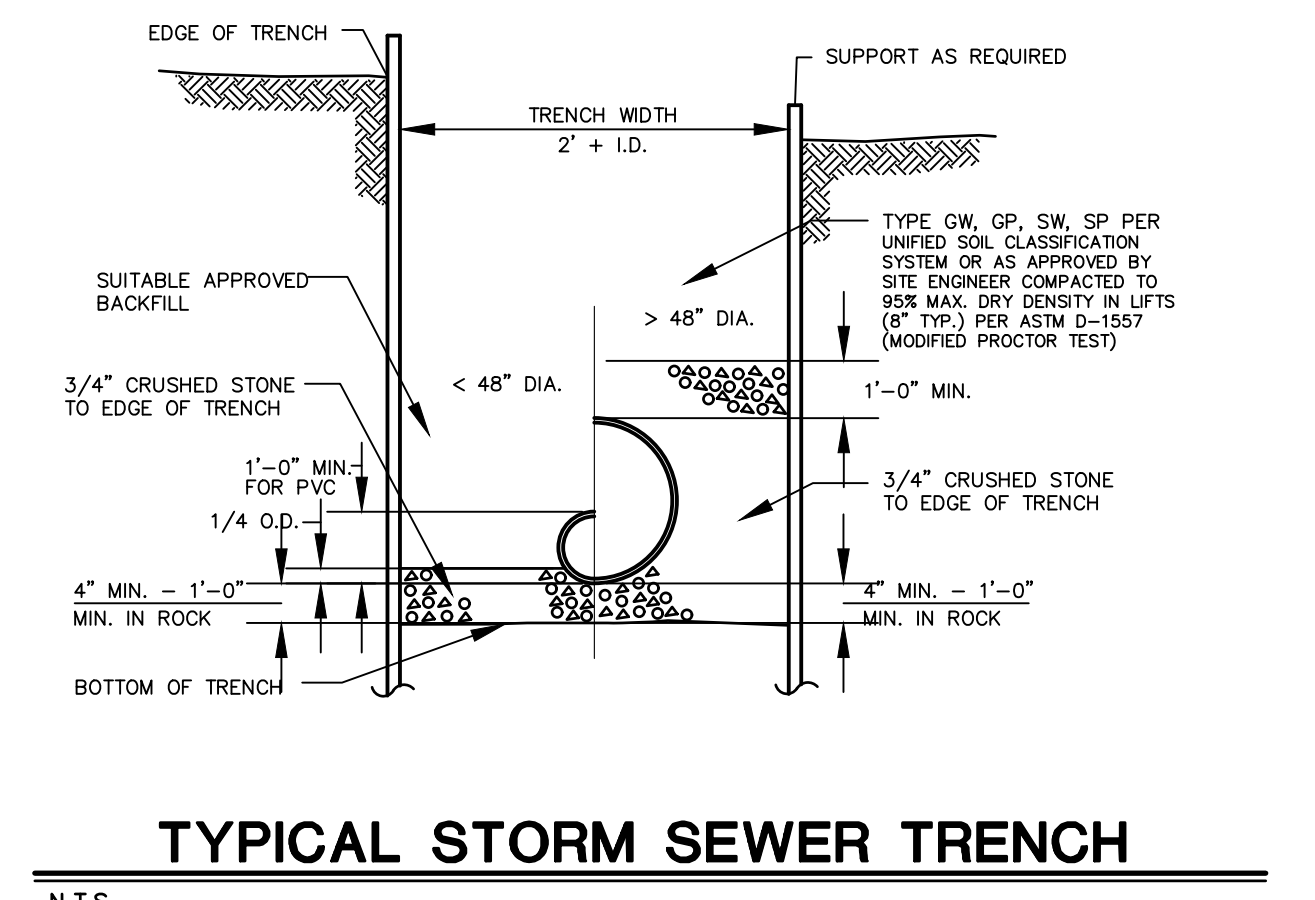
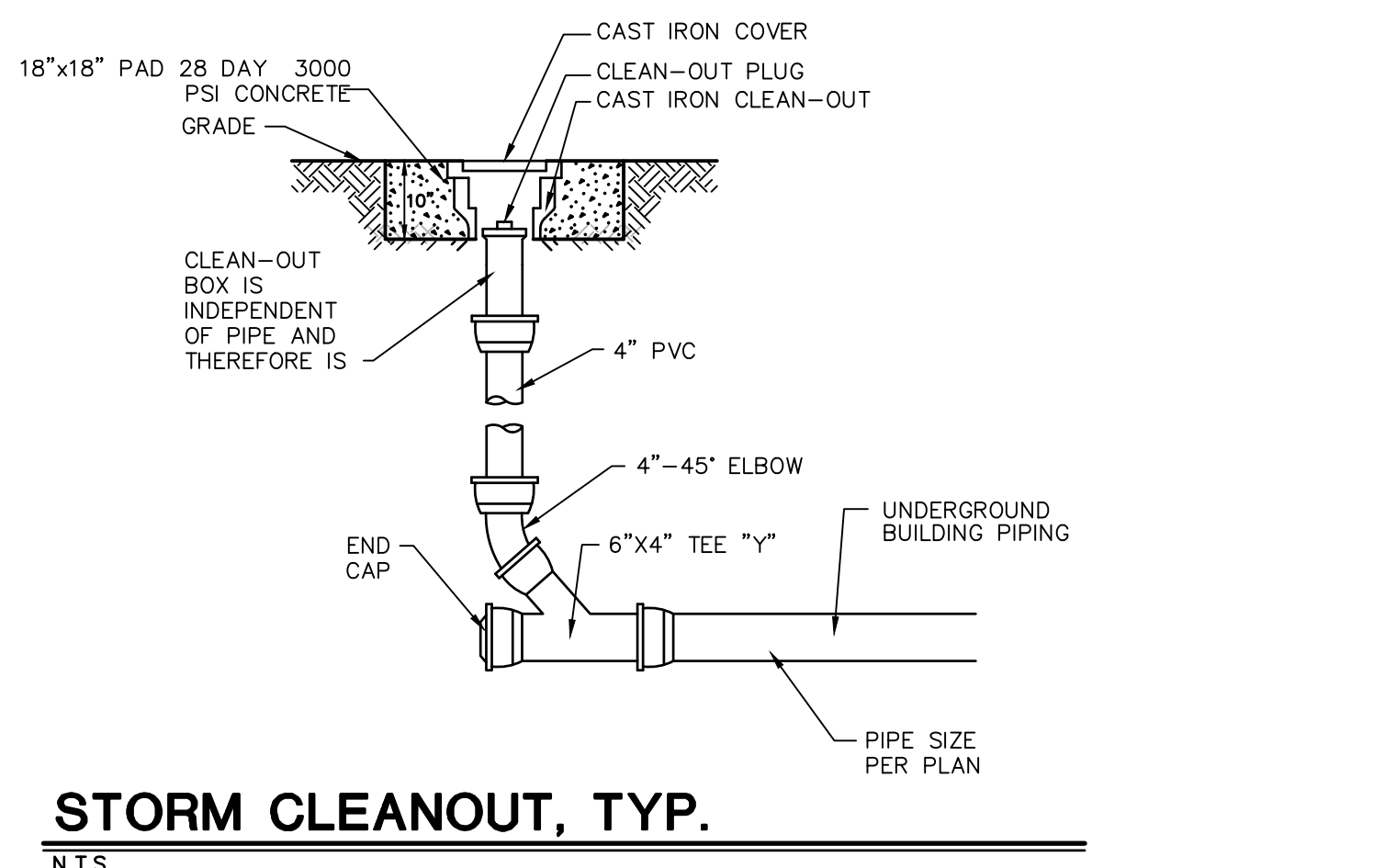
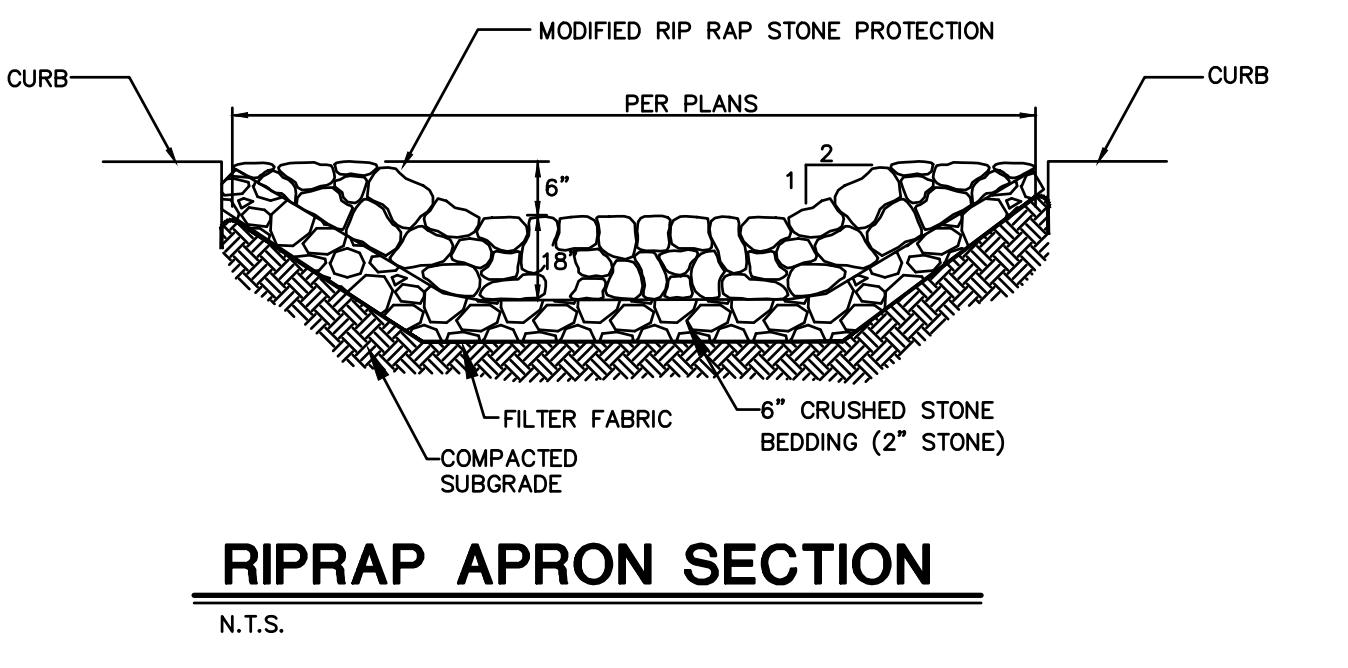
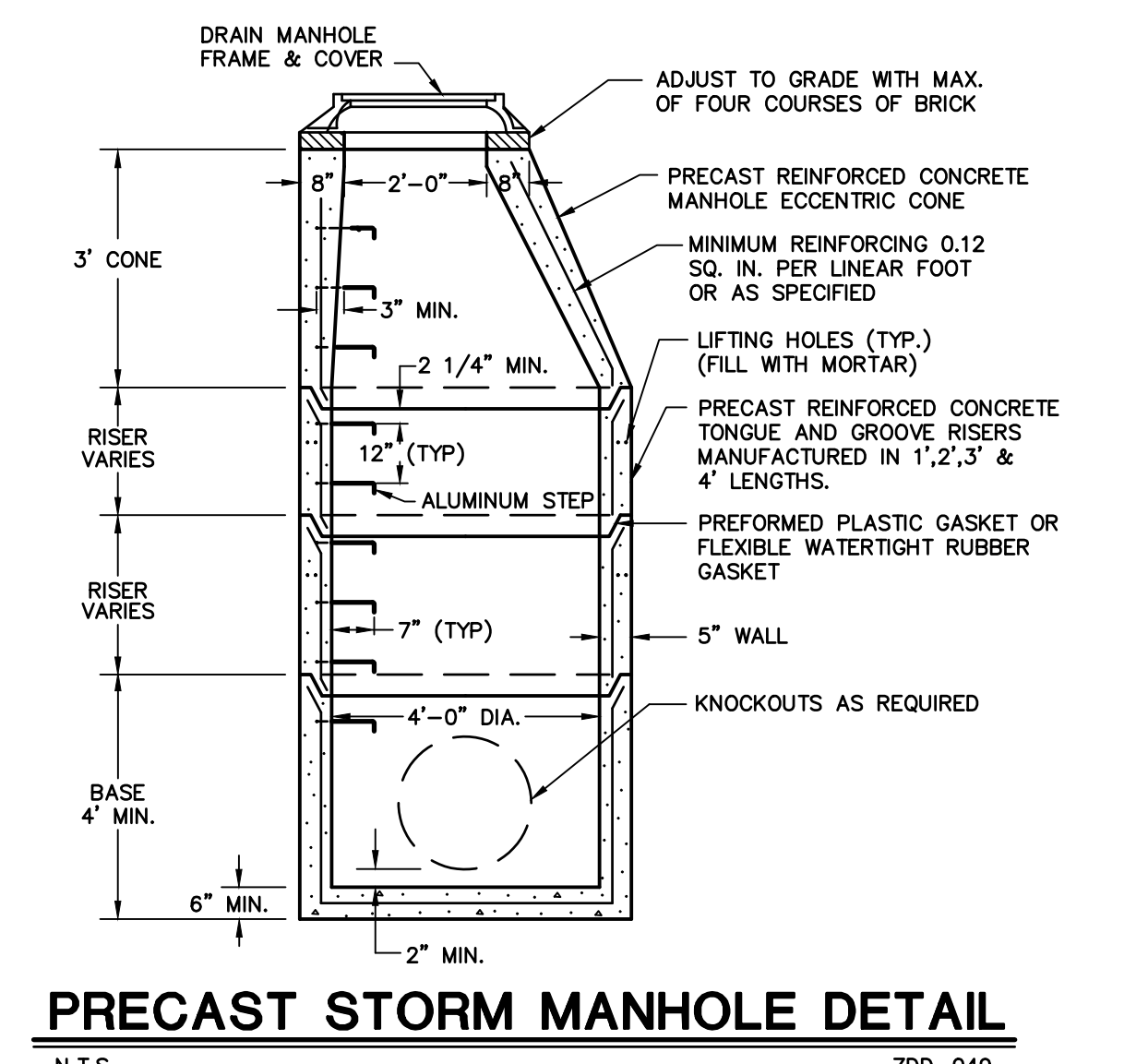
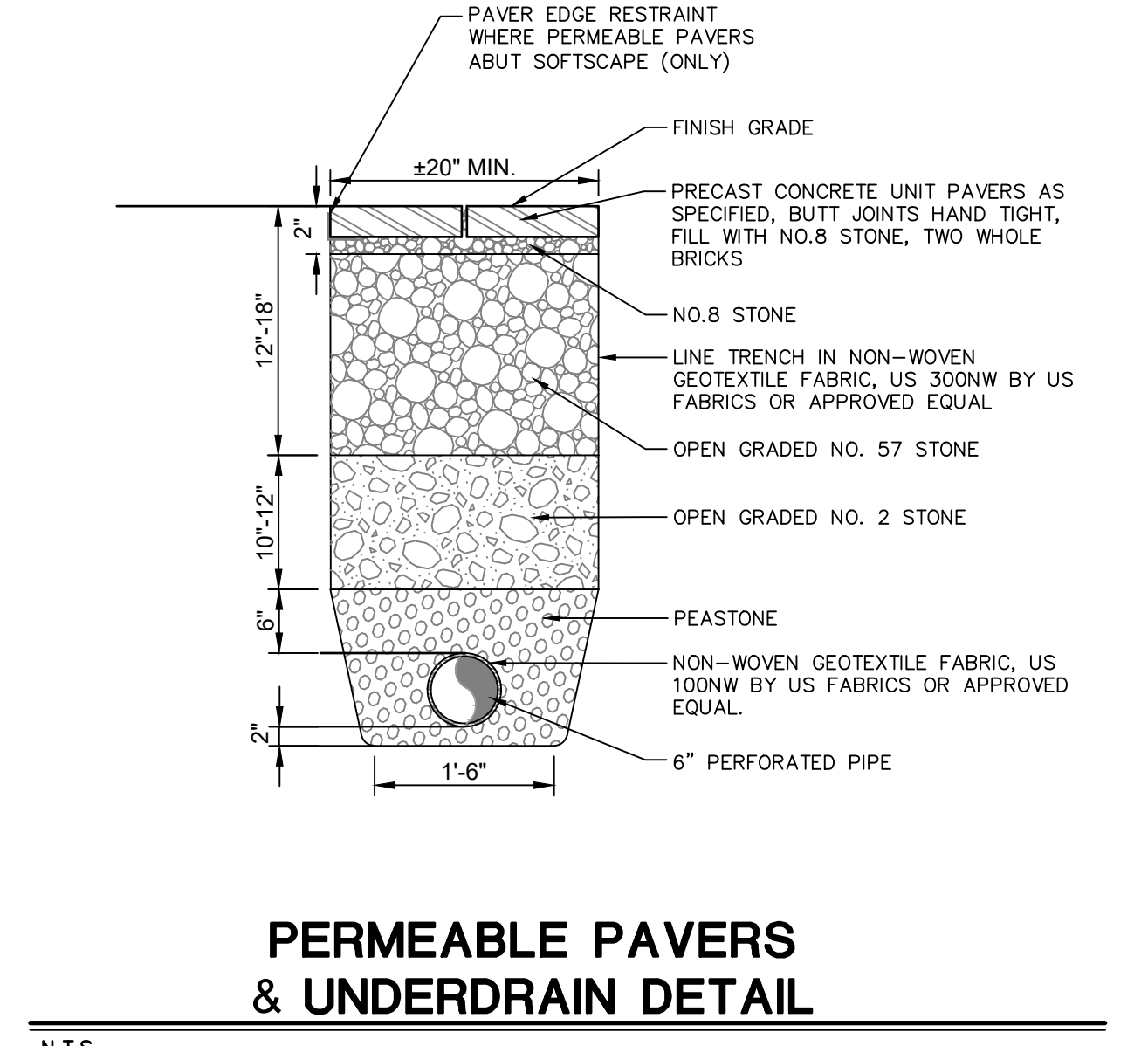
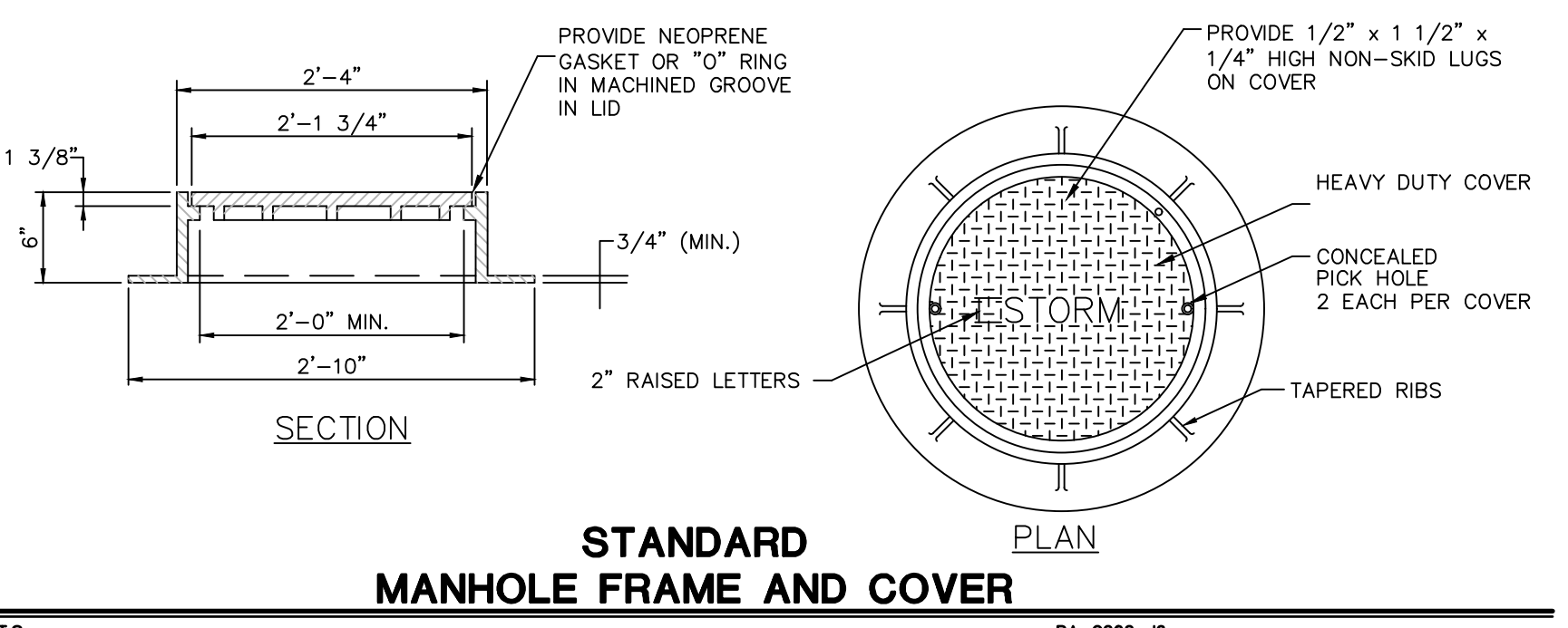
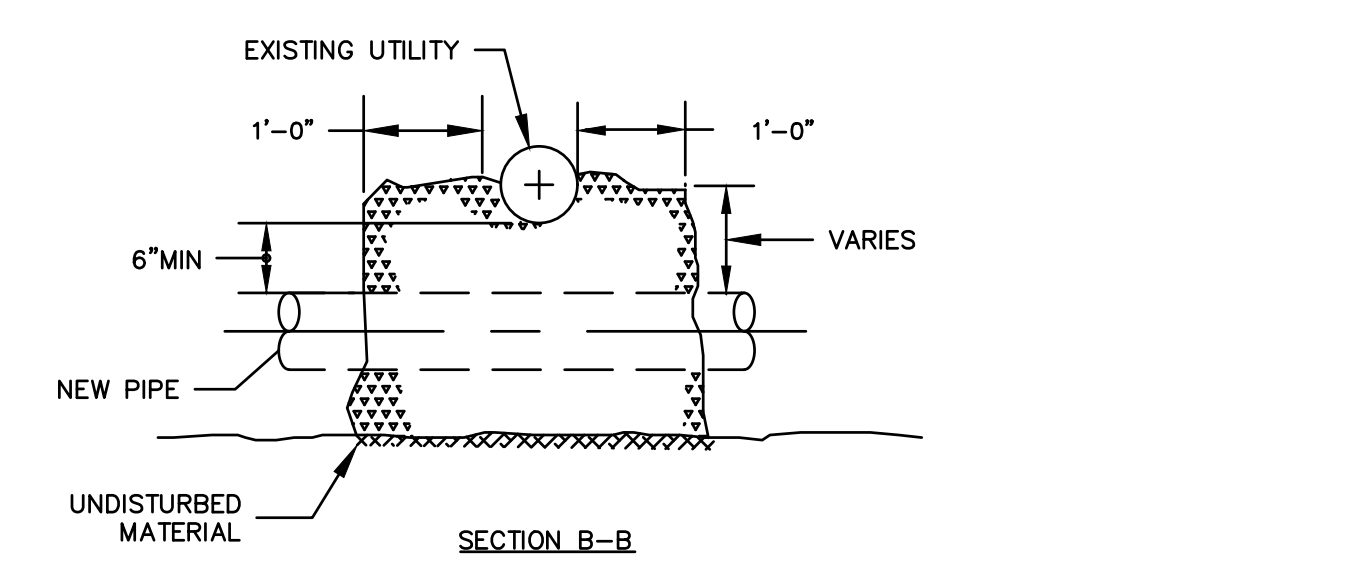
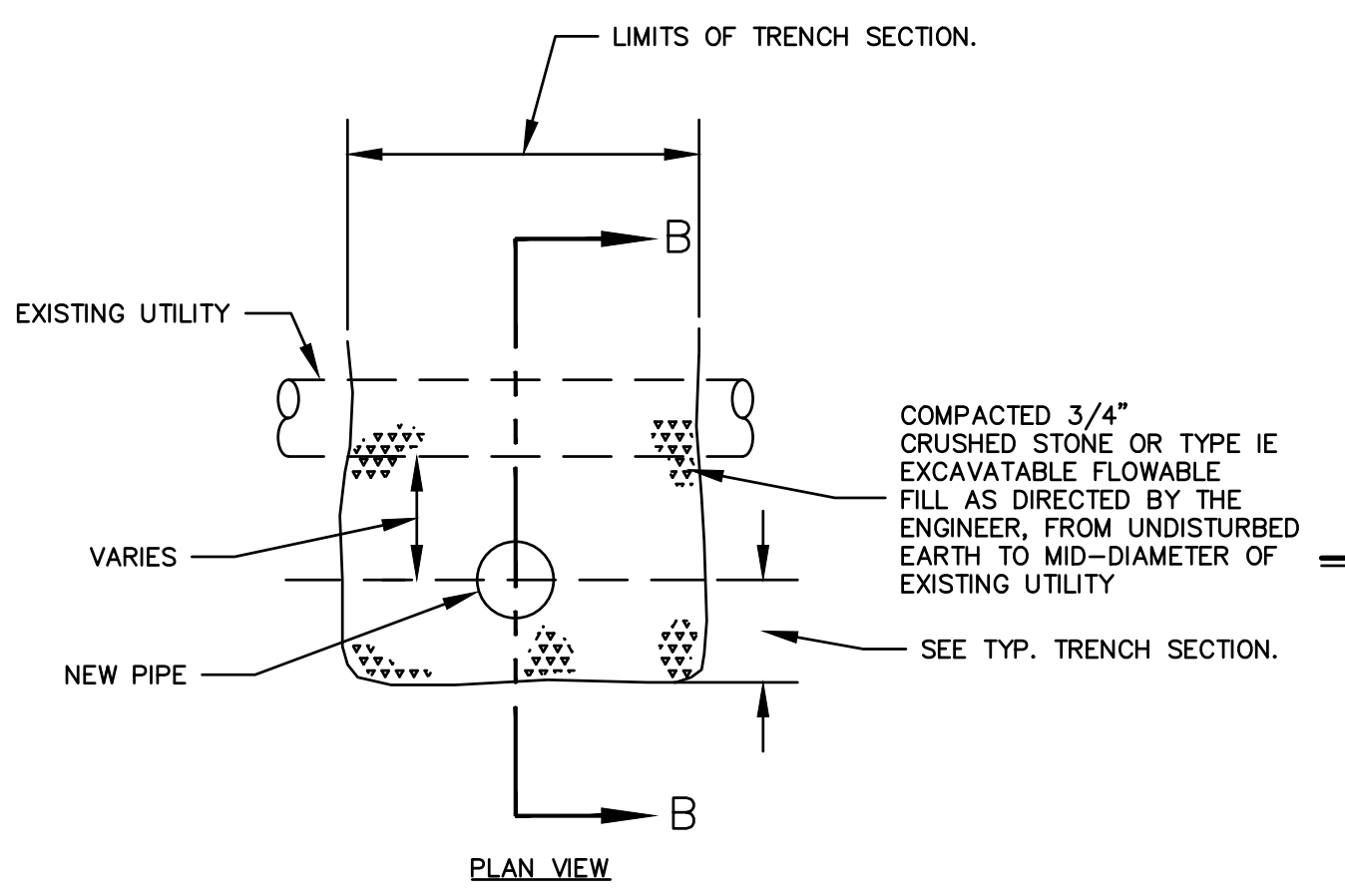
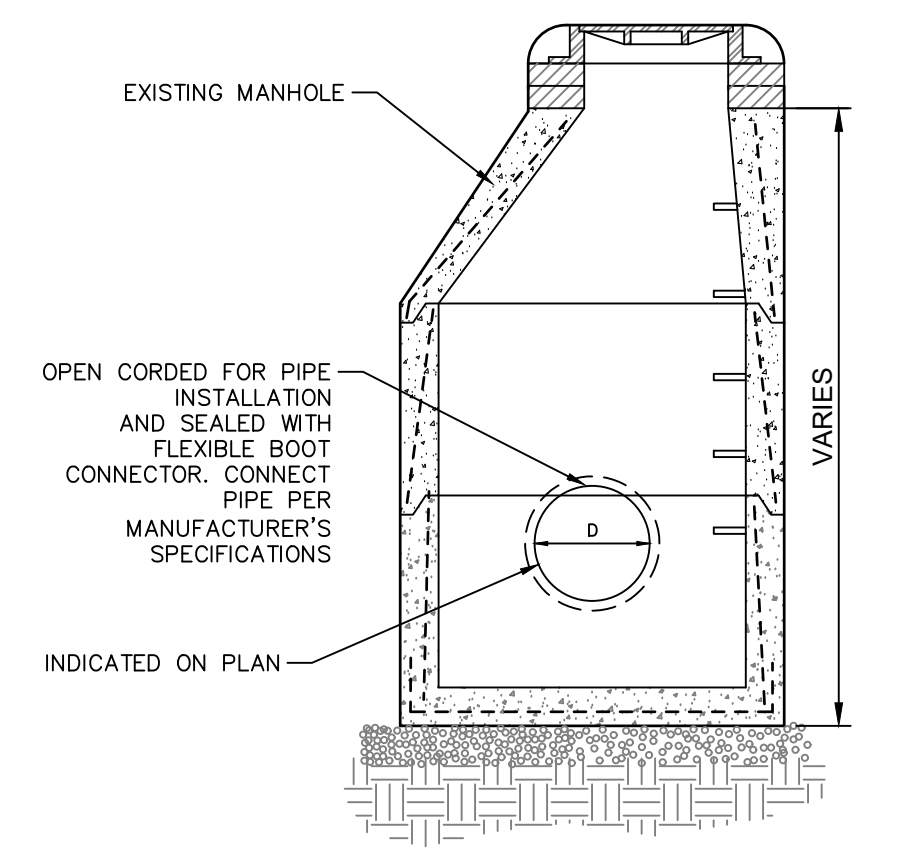
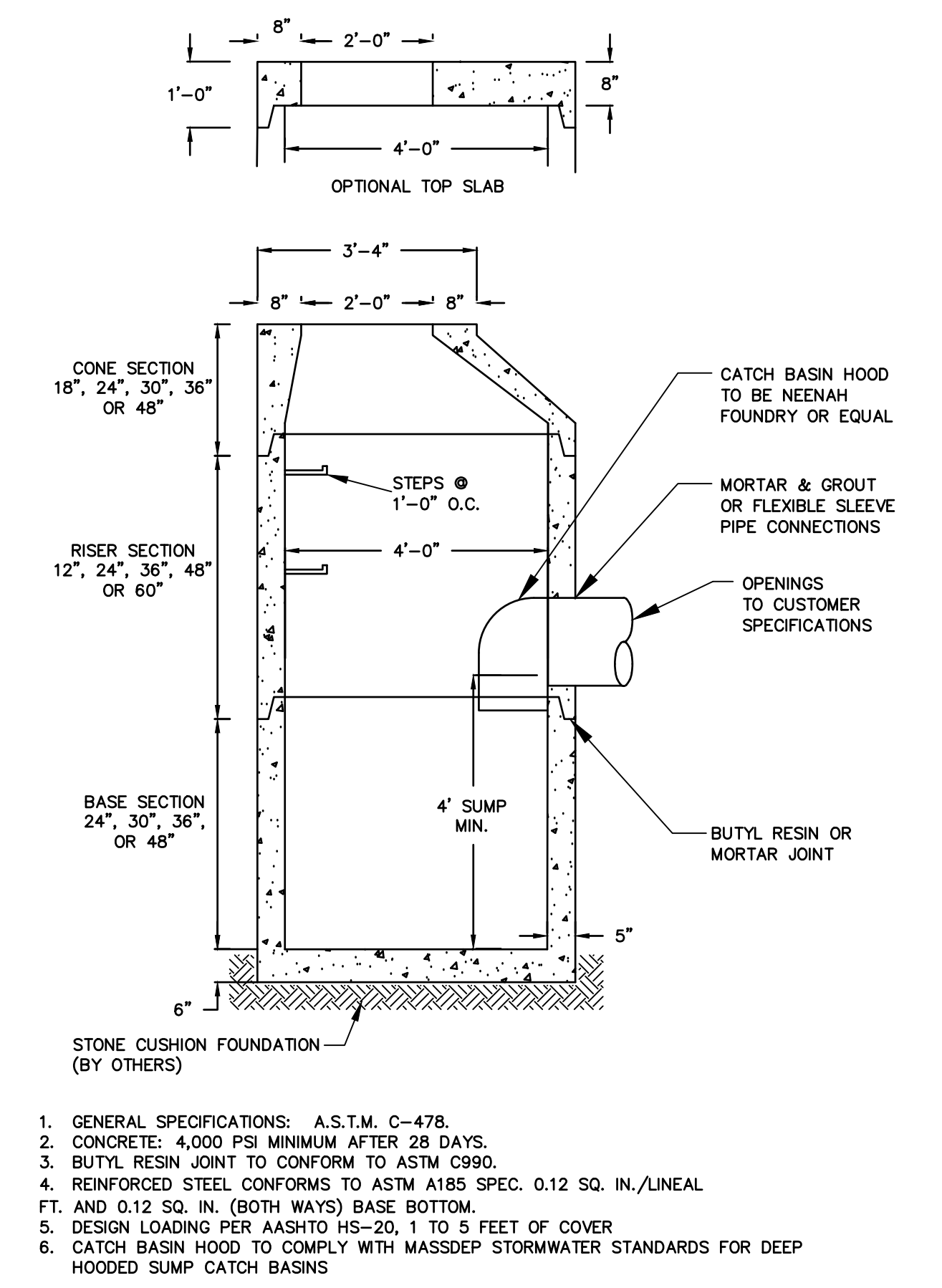
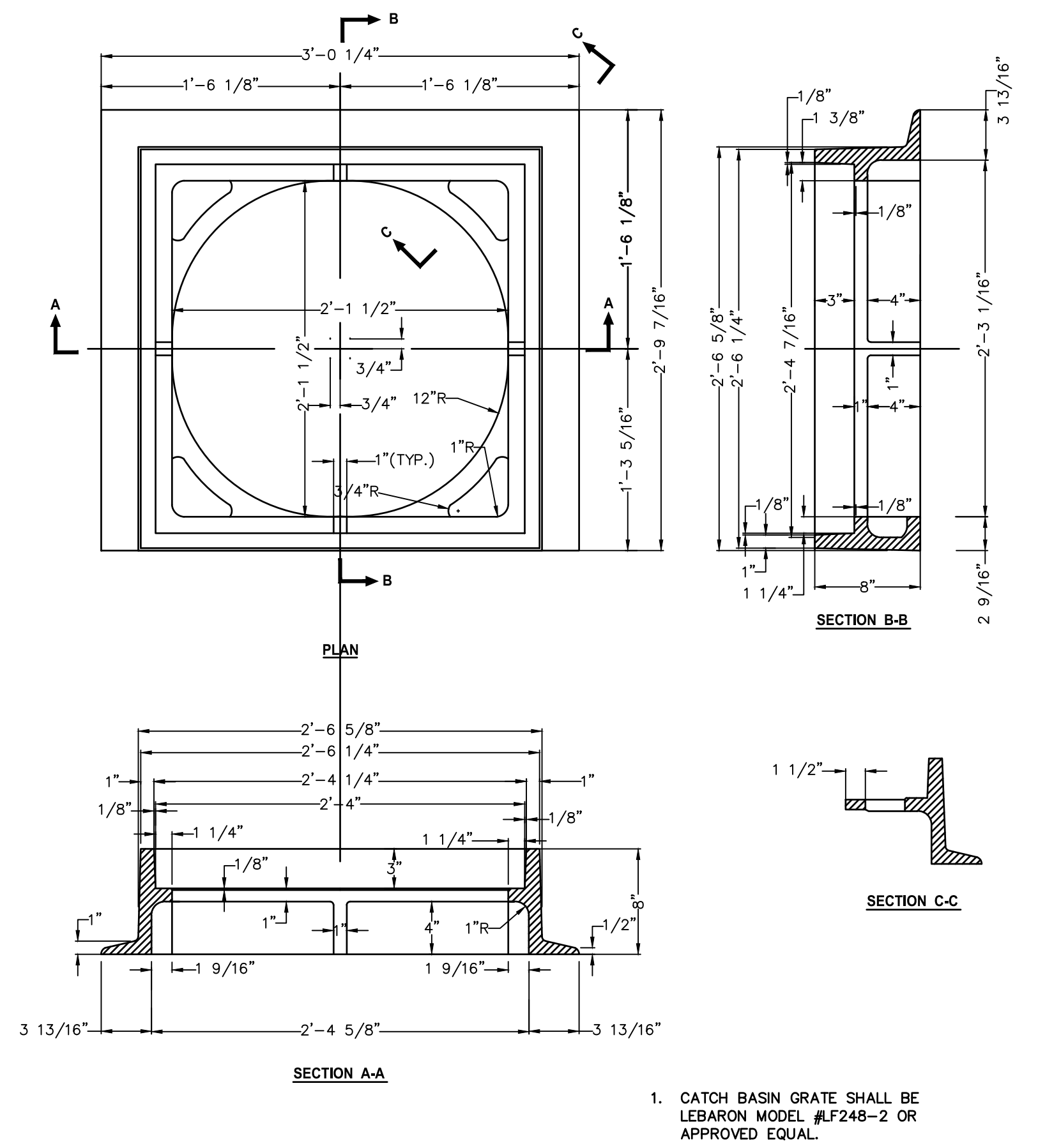
REVISIONS	
No.	Date

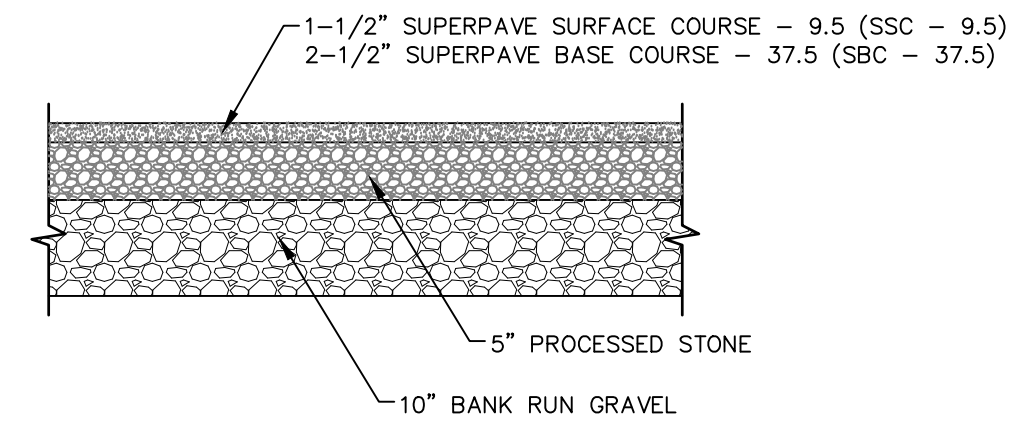
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Project No.	2001478
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Title
SITE PREPARATION & DEMOLITION DETAILS

Sheet No.

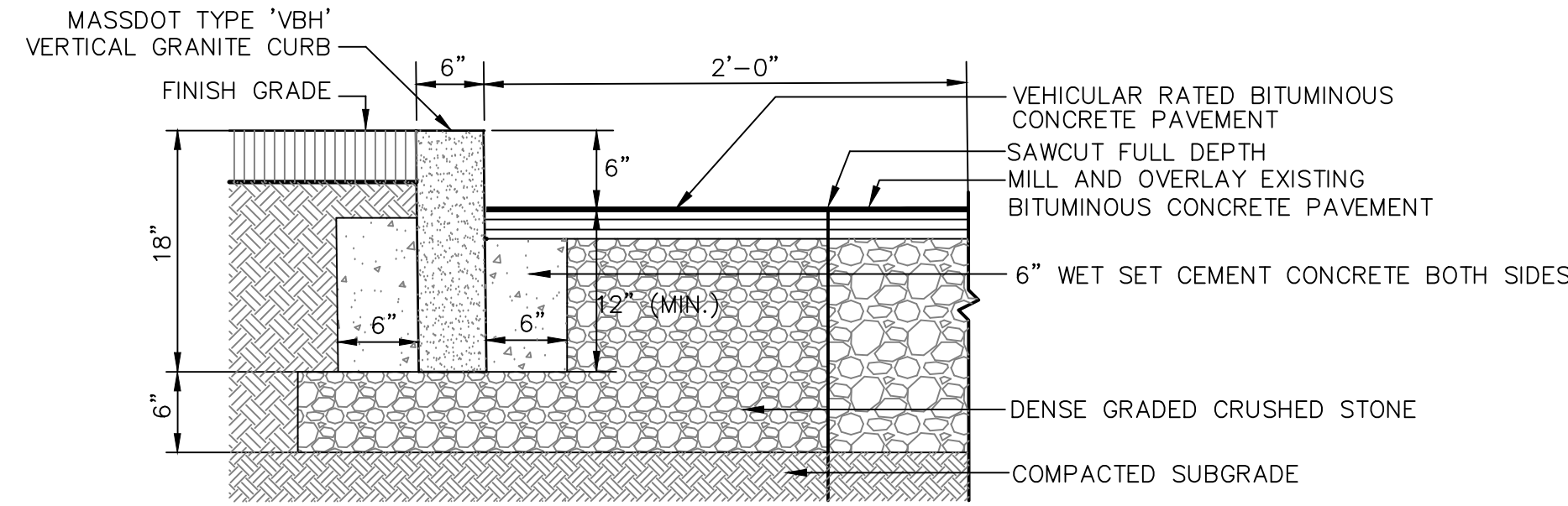
S:\2021\KAREED\1\BLCOMPANIES.COM\DESIGN\PROJECTS\PROJ\02001478\0200147801\DWG\DN03.DWG





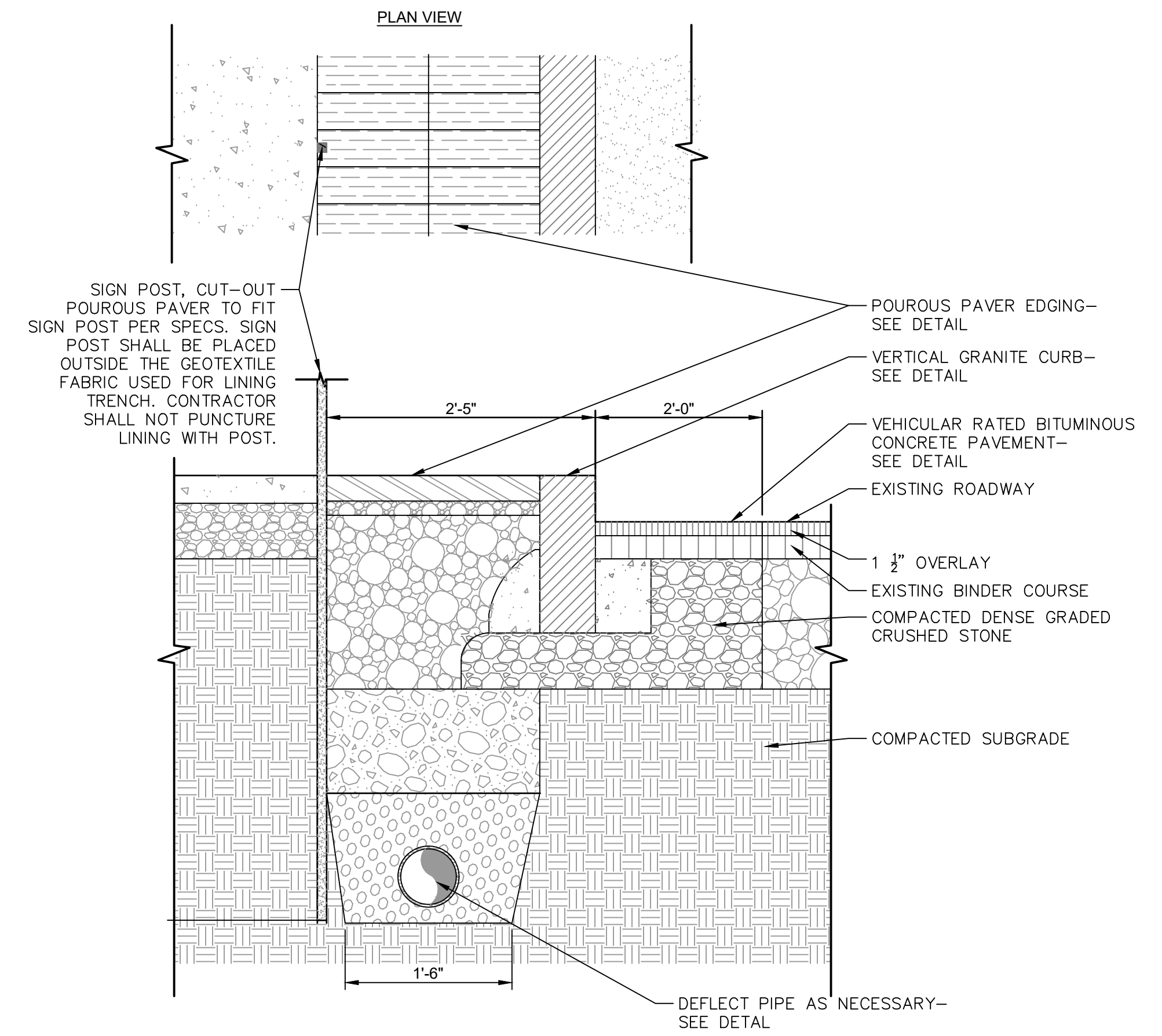
VEHICULAR RATED BITUMINOUS CONCRETE PAVEMENT

N.T.S.



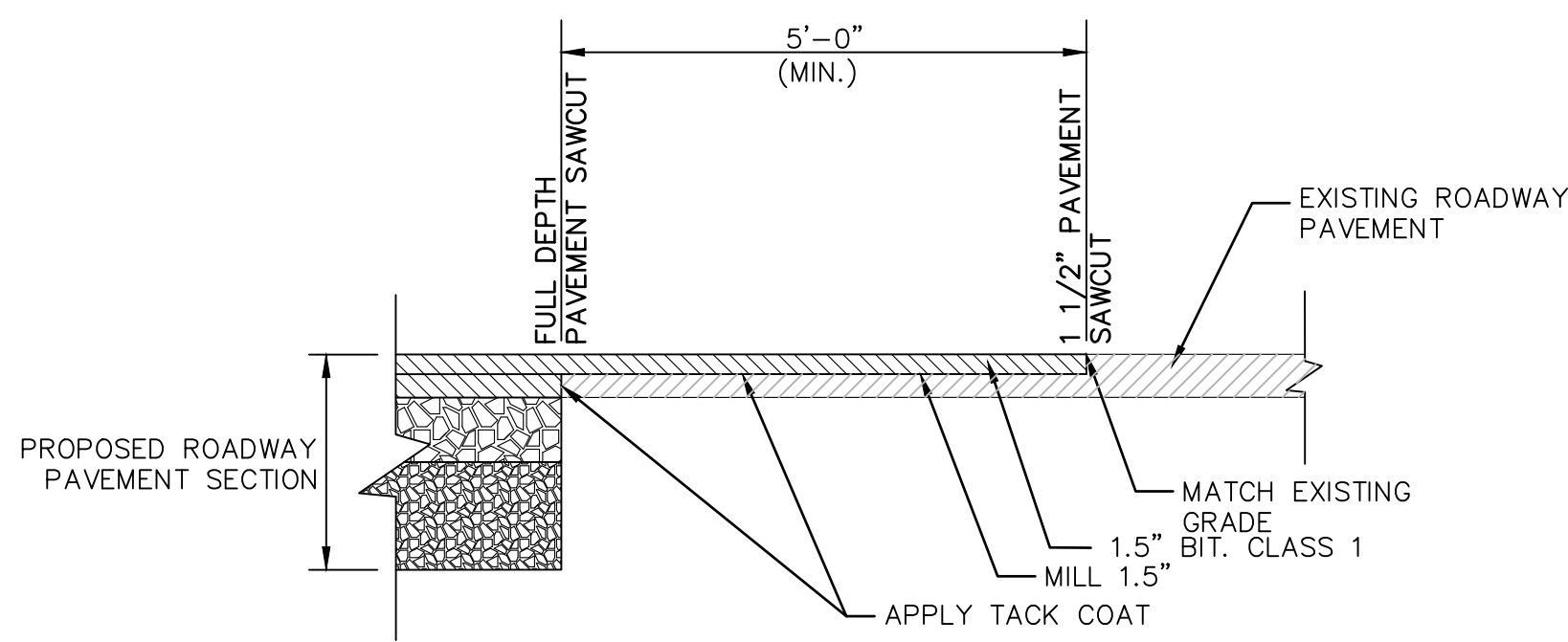
VERTICAL GRANITE CURB

N.T.S.



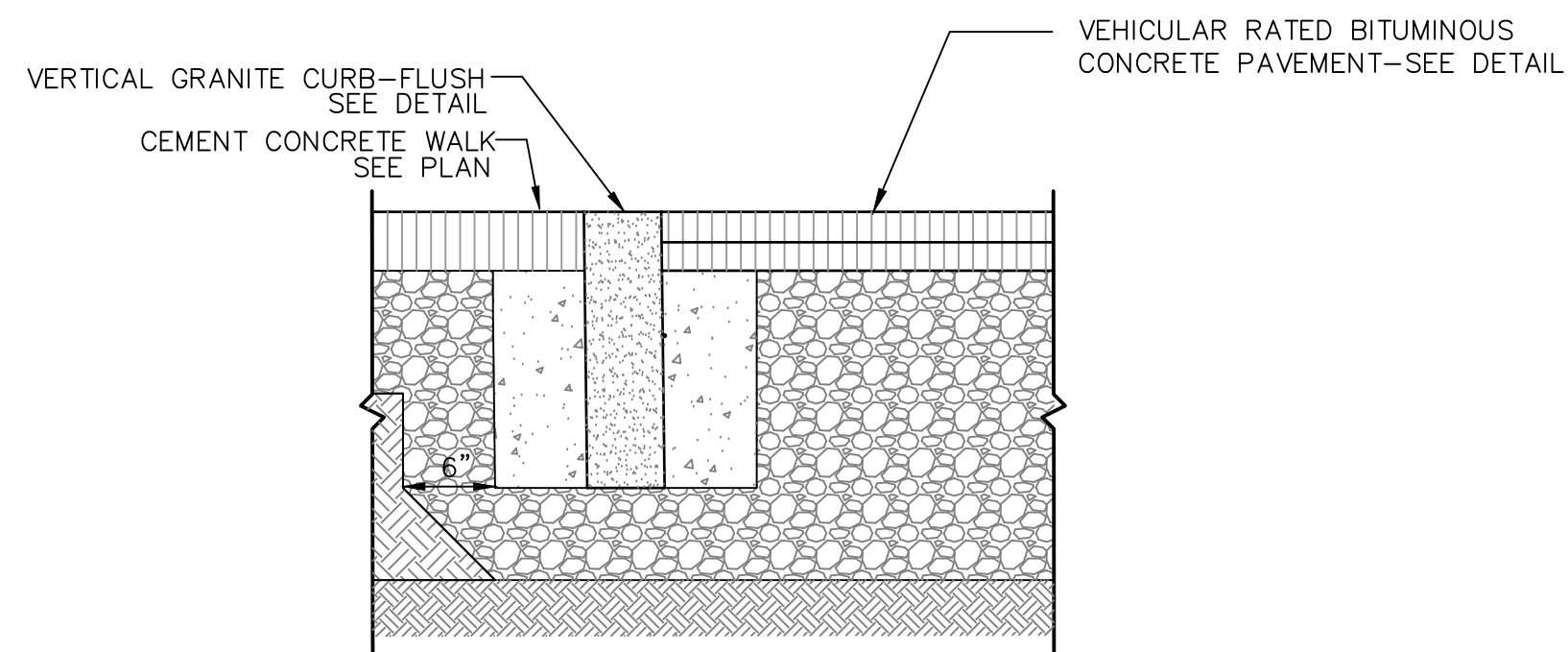
RELOCATED/RESET TRAFFIC SIGN

N.T.S.



PAVEMENT MATCHING DETAIL

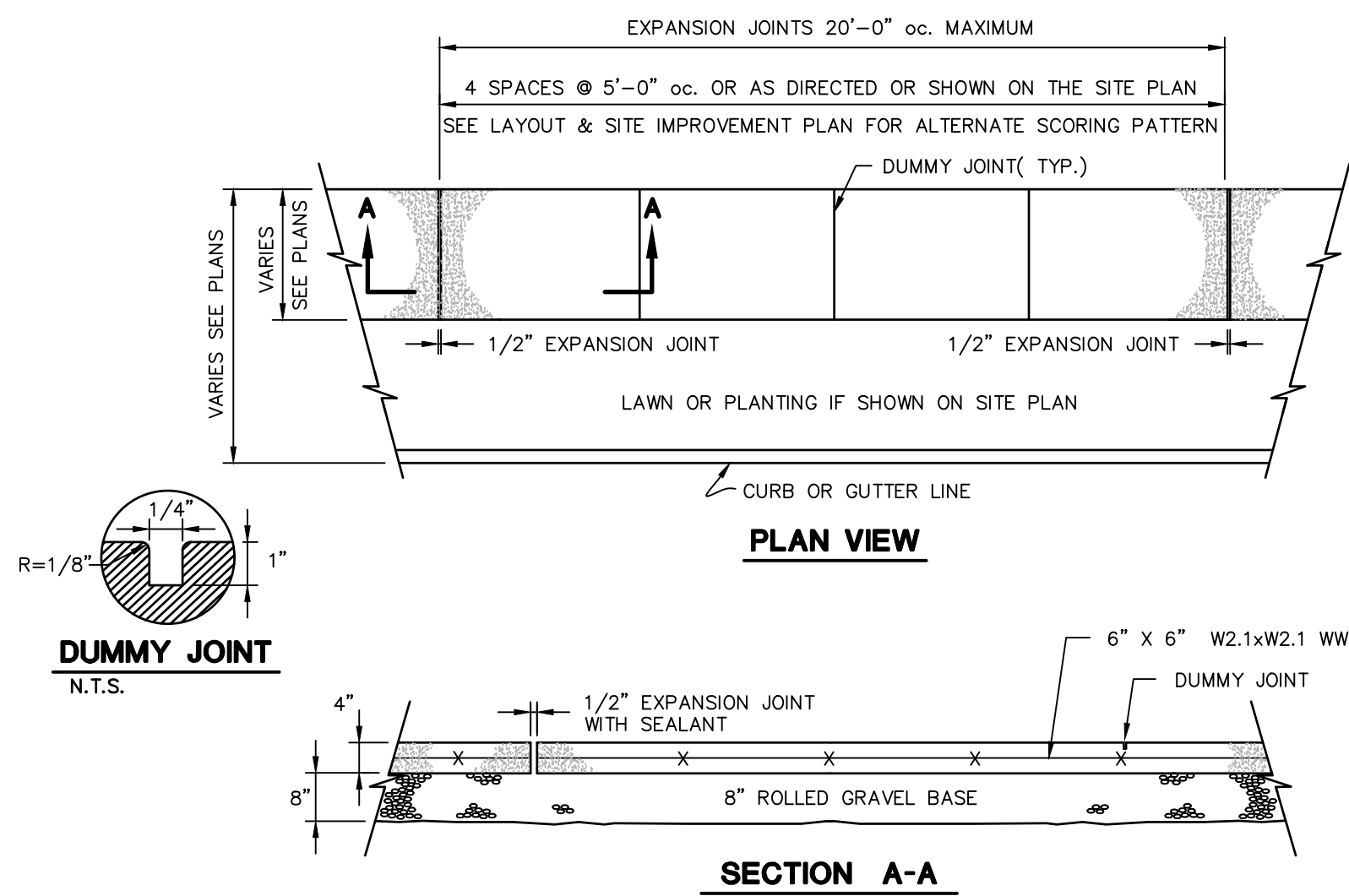
N.T.S.



- NOTES:
 1. CEMENT CONCRETE SHALL EXTEND TO THE BOTTOM OF THE BITUMINOUS CONCRETE.
 2. ANY CLASS OF CEMENT CONCRETE ACCEPTABLE UNDER SECTION M4 OF THE MASS. "SSH8 MAY BE USED.

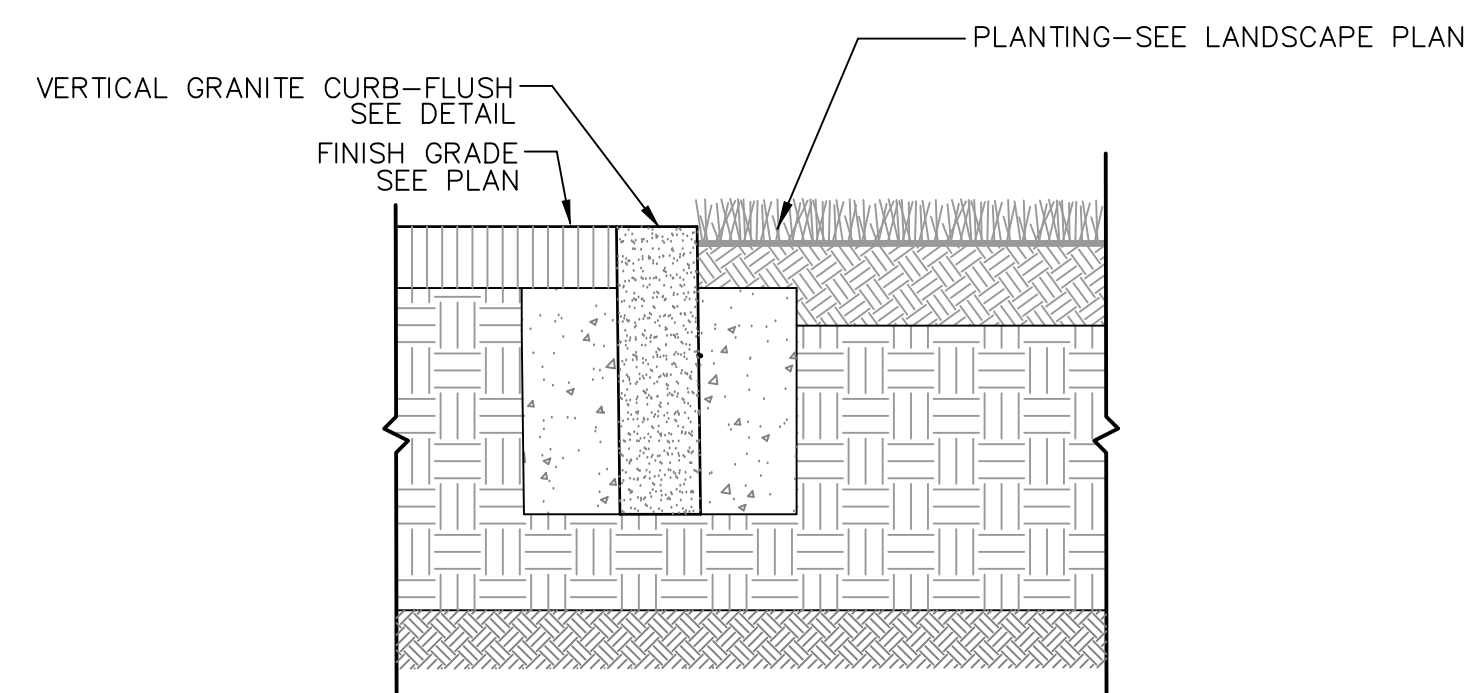
VERTICAL GRANITE CURB-FLUSH

N.T.S.



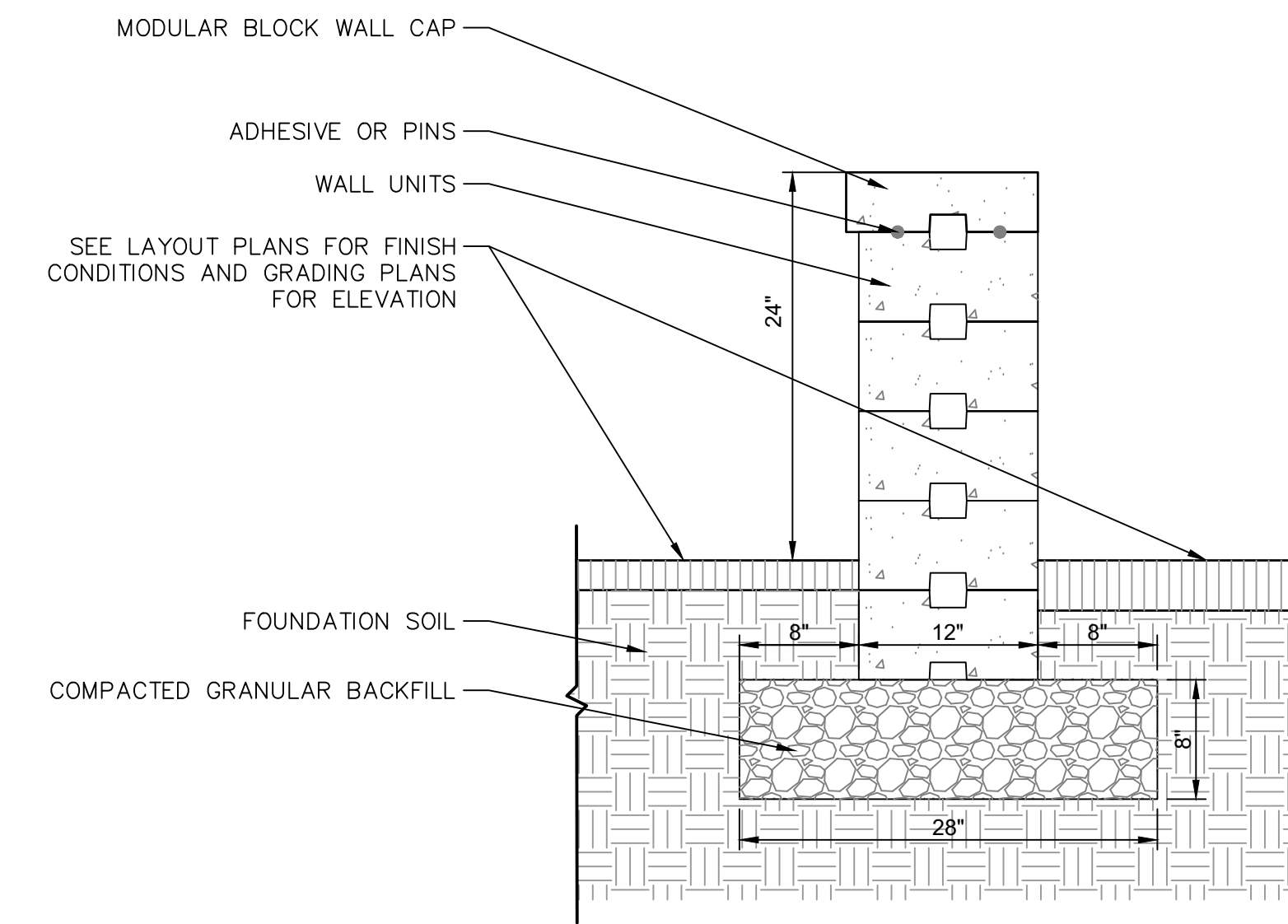
CONCRETE SIDEWALK

N.T.S.



VERTICAL GRANITE CURB-FLUSH AT PLANTING

N.T.S.



MODULAR CONCRETE BLOCK SEAT WALL

N.T.S.

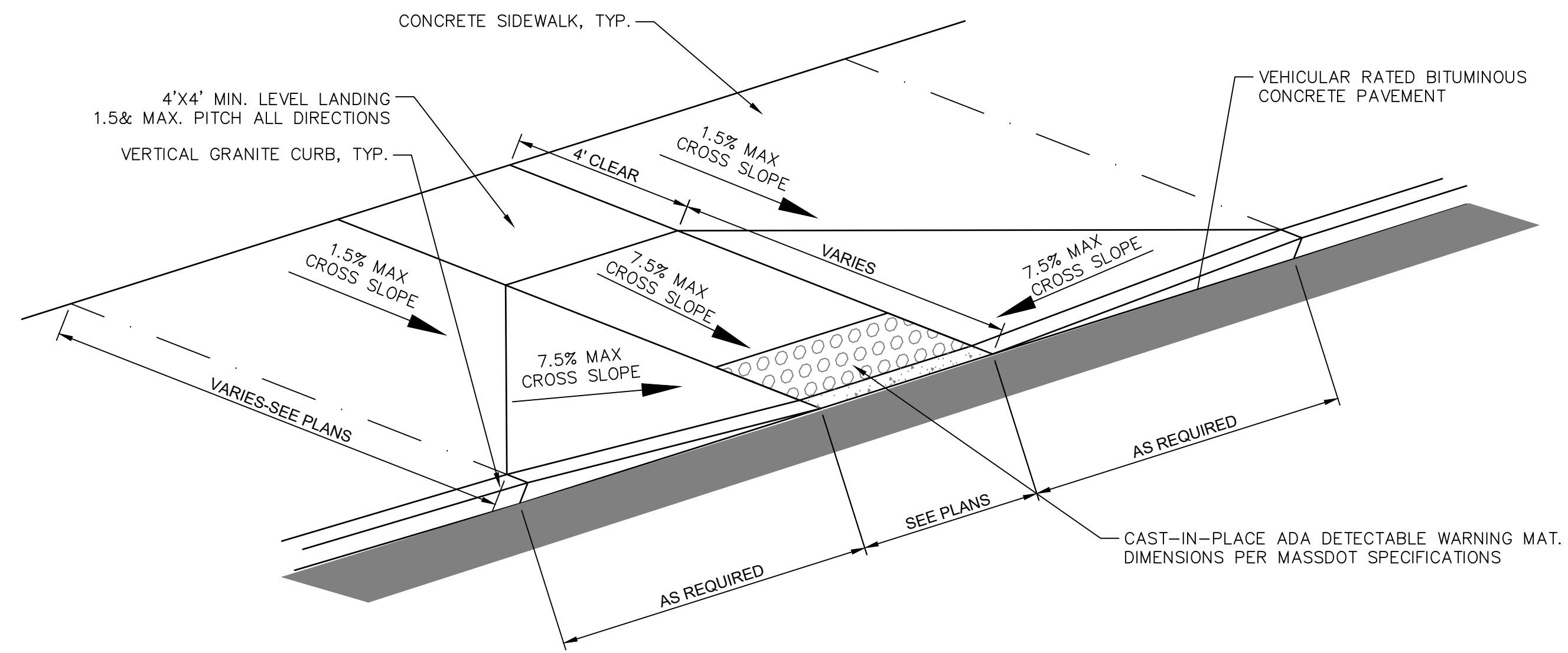
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SITE DETAILS

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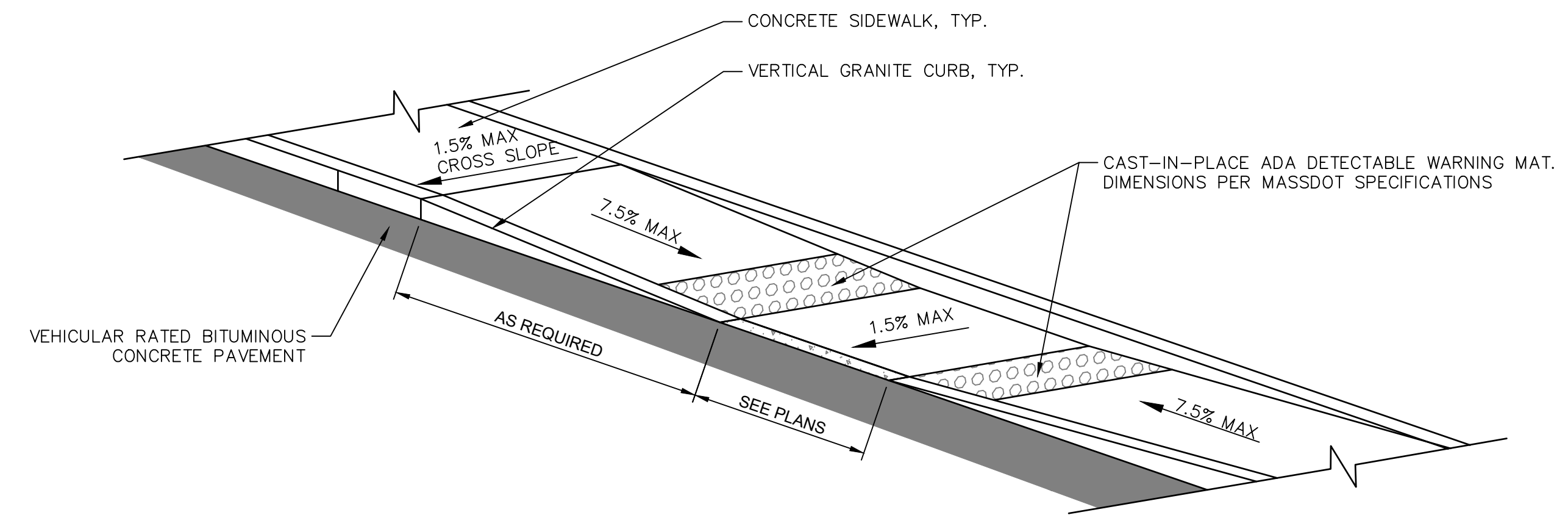
DN-05



- 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.
 3. INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R

ADA CURB RAMP TYPE A

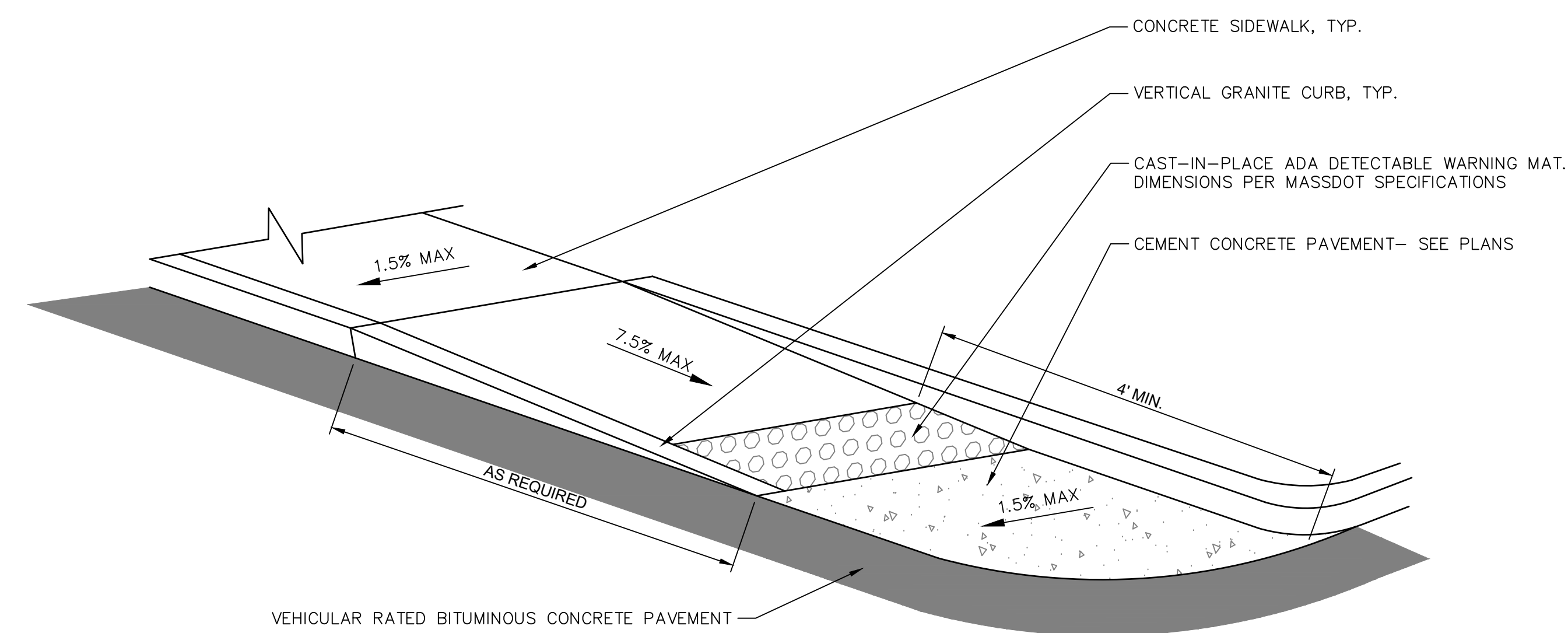
N.T.S.



- 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.
 3. INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R

ADA CURB RAMP TYPE B

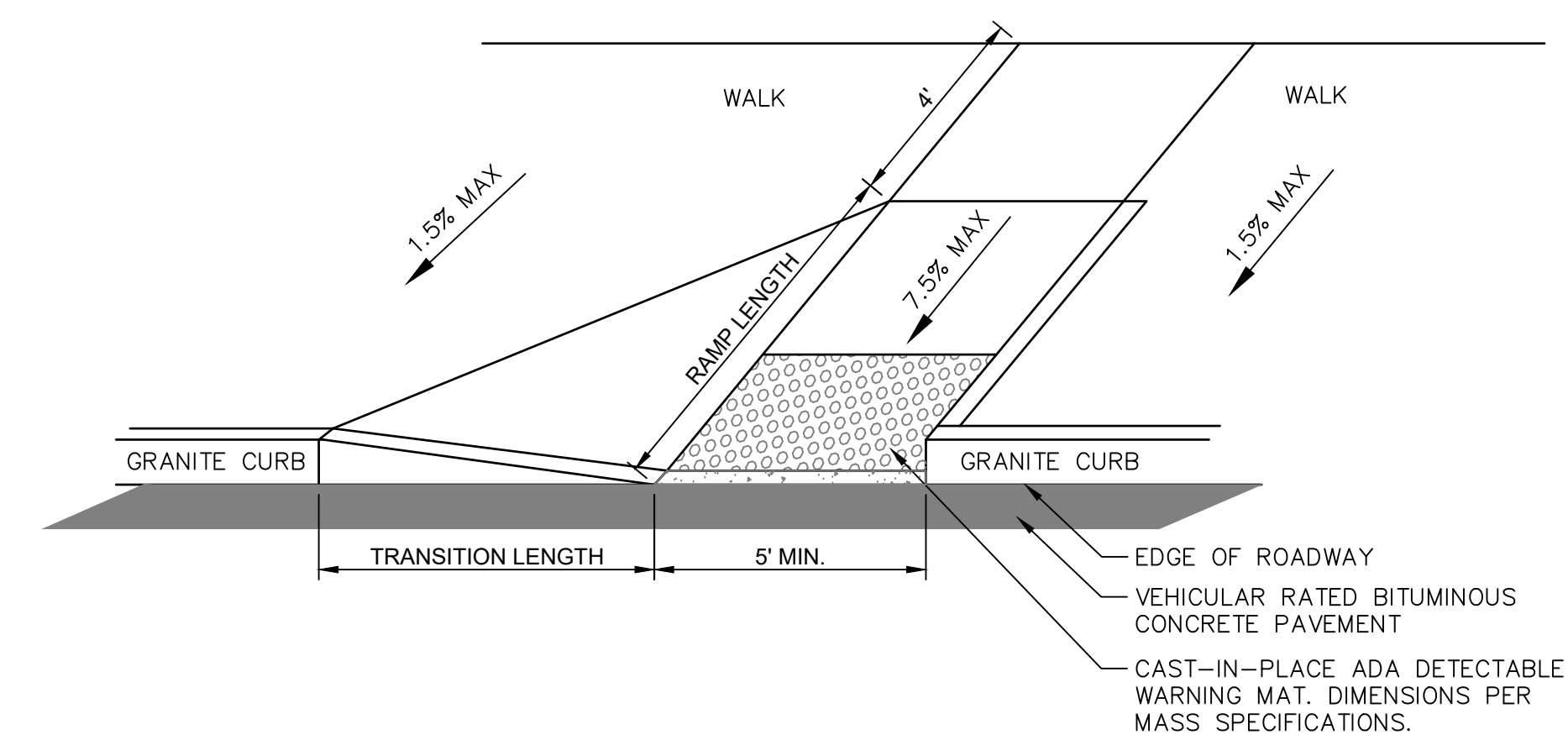
N.T.S.



- 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.
 3. INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R

ADA CURB RAMP TYPE C

N.T.S.



- NOTES:**
1. INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
 2. EXISTING GRANITE DRIVEWAY GRANITE CURB TRANSITION STONES SHALL BE REMOVED AND RESET OR REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
 3. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF RAMP WITHIN TOLERANCES GIVEN UNLESS OTHERWISE NOTED. FAILURE TO MEET TOLERANCES, OR PRIOR NOTICE TO ENGINEER THAT TOLERANCES CANNOT BE MET, WILL REQUIRE RECONSTRUCTION TO PROPER TOLERANCES AT NO EXPENSE TO THE OWNER.
 4. SLOPE TOLERANCE FOR CONSTRUCTION 0.5% ±

ADA CURB RAMP TYPE D

N.T.S.

5/24/2021, KAREED, \\BLCOMPANIES\COM\DESIGN\PROJ\020201\MA\001\4EN\DWG\04000\4780\DWG.DWG

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SITE DETAILS

Sheet No.

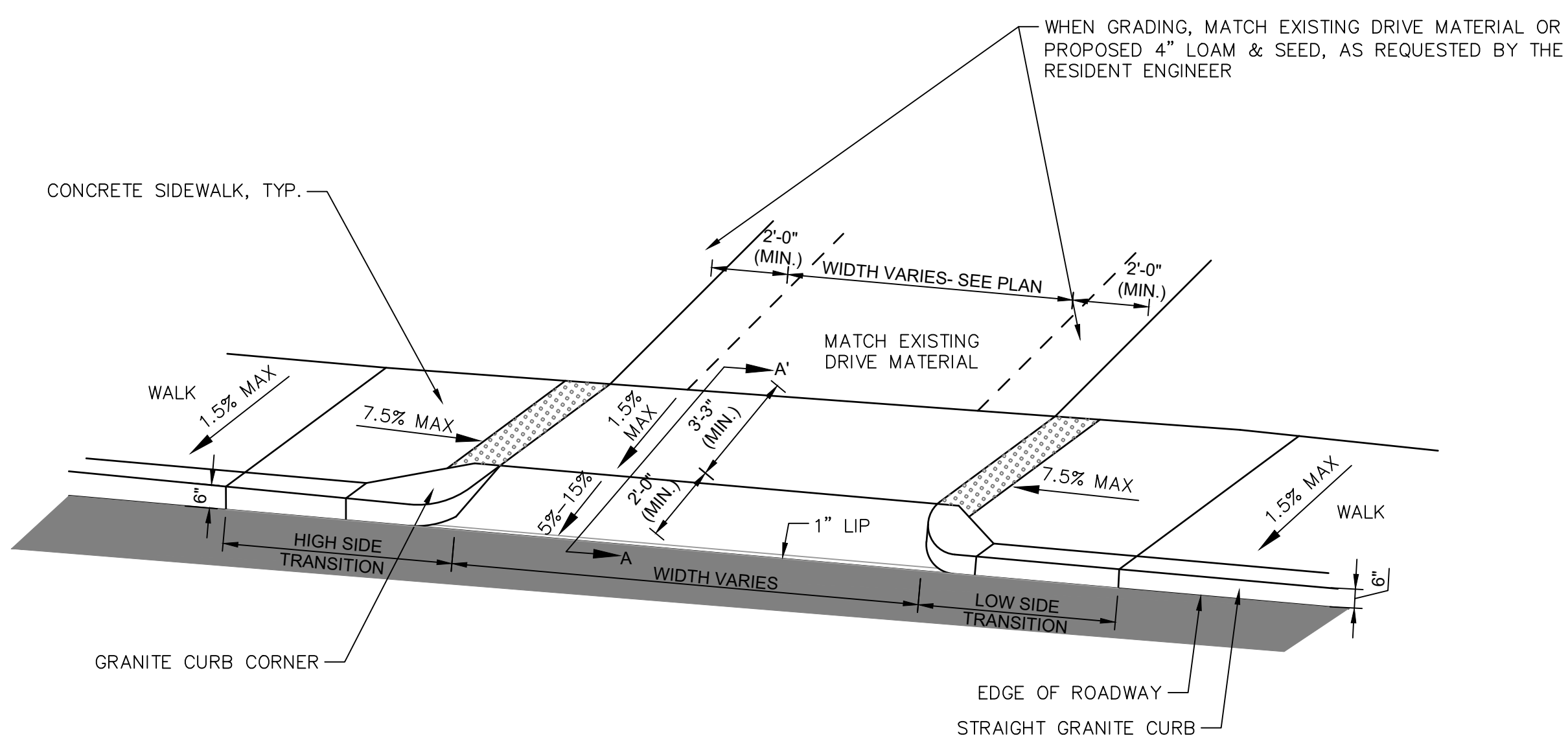
DN-06

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Designed	K.A.
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Reviewed	M.M.
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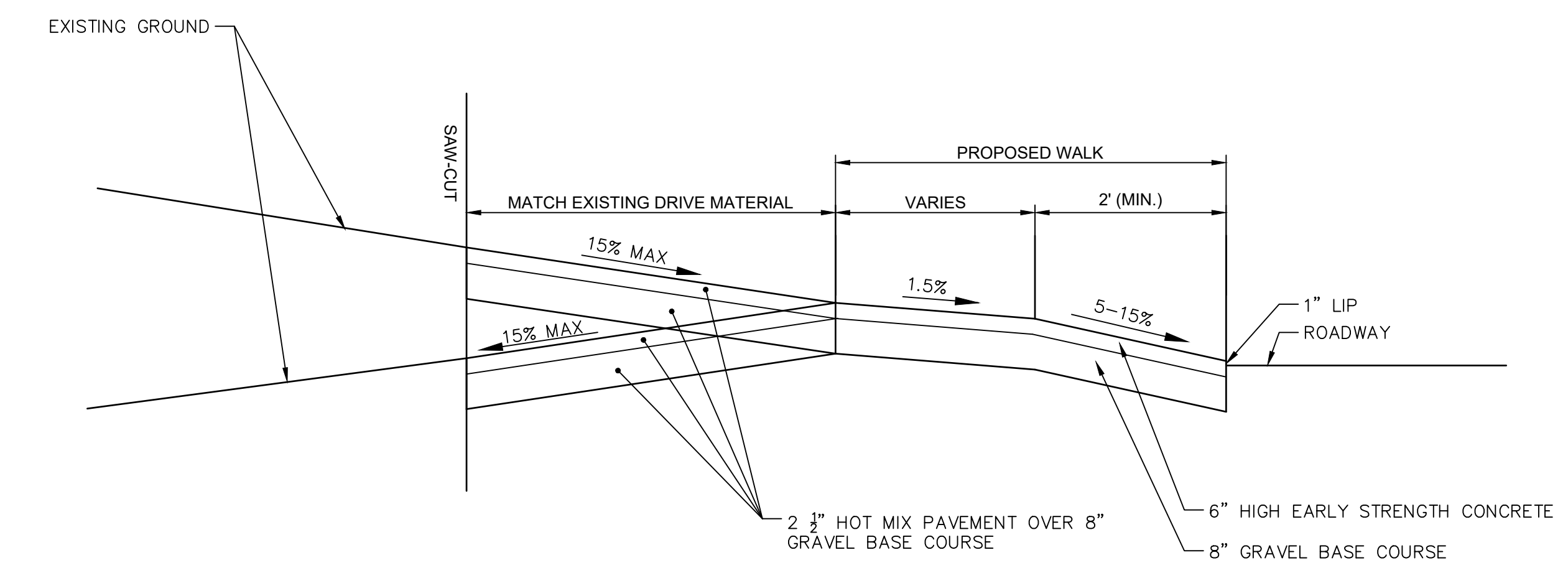
Title
SITE DETAILS
Sheet No.

DN-07



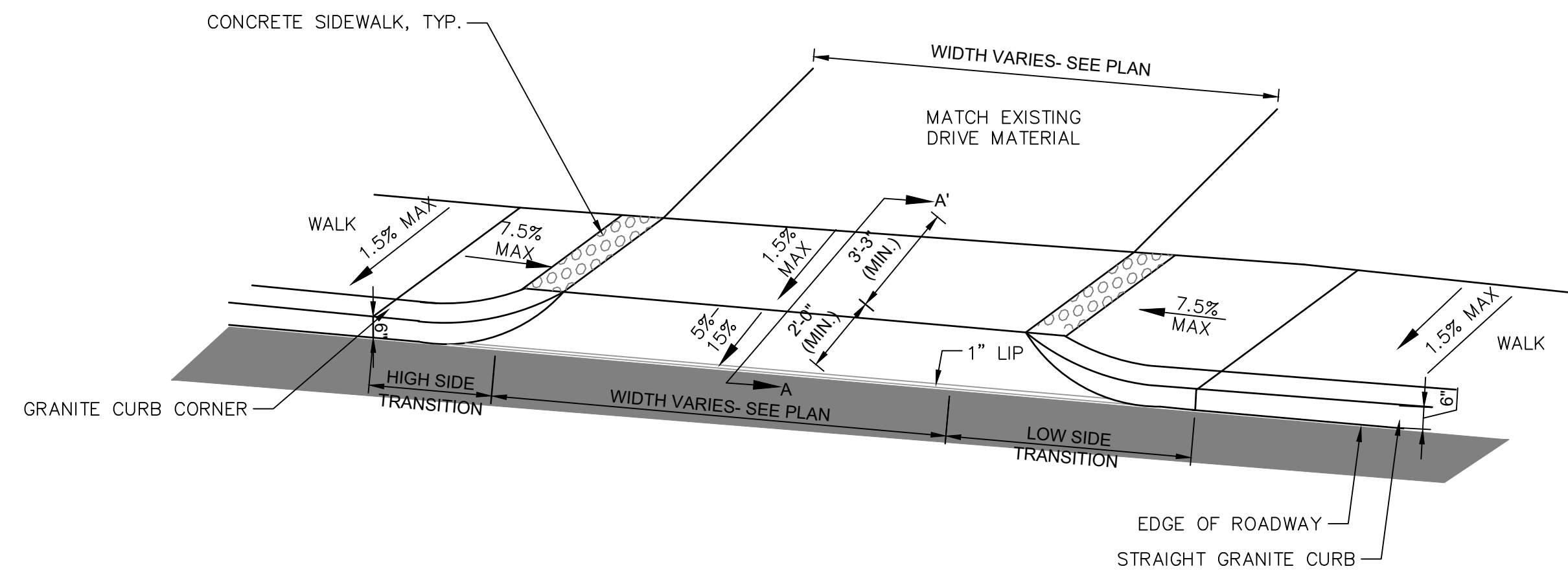
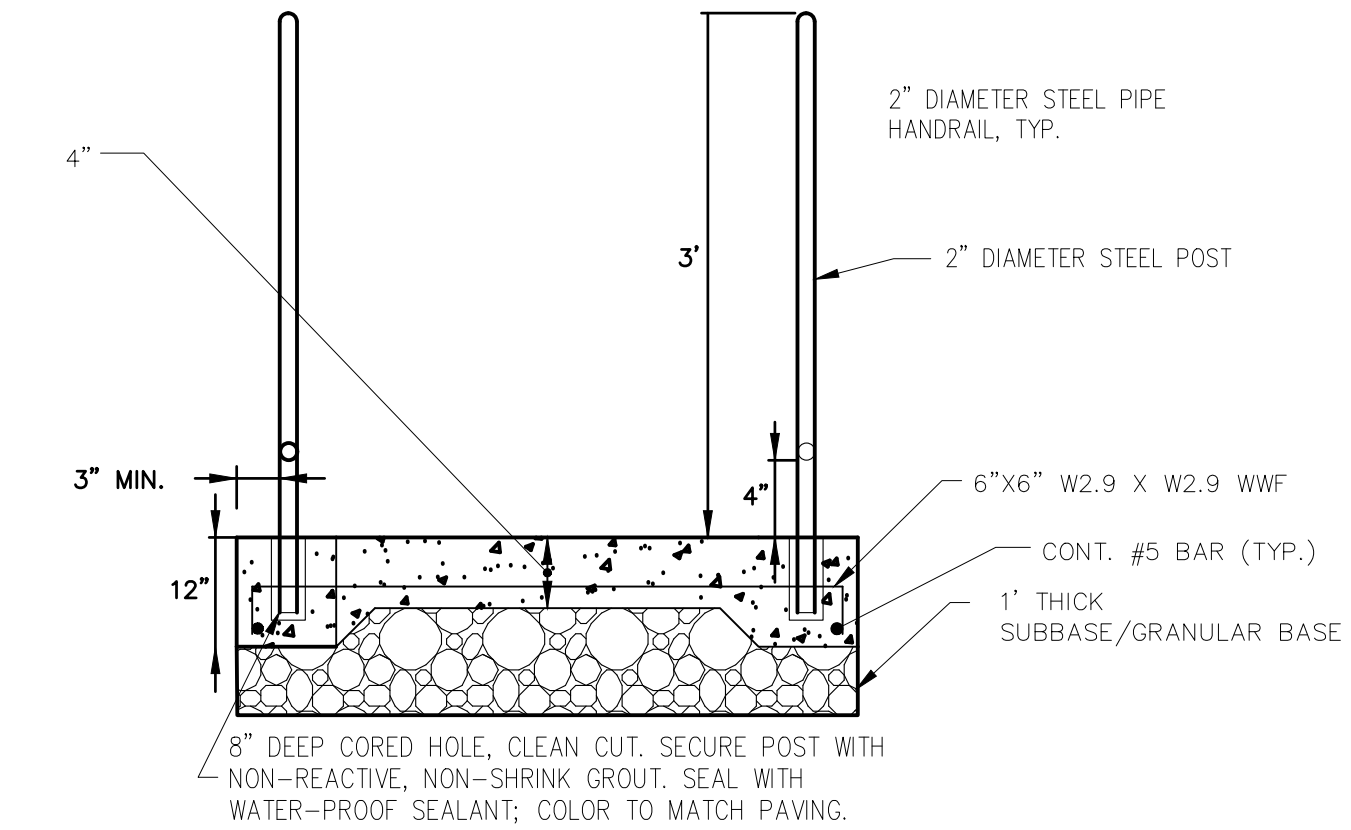
- NOTES:
1. INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
 2. EXISTING GRANITE DRIVEWAY GRANITE CURB TRANSITION STONES SHALL BE REMOVED AND RESET OR REMOVED AND REPLACED AS DIRECTED BY ENGINEER.
 3. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF RAMP WITHIN TOLERANCES GIVEN UNLESS OTHERWISE NOTED. FAILURE TO MEET TOLERANCES, OR PRIOR TO NOTICE TO ENGINEER THAT TOLERANCES CANNOT BE MET, WILL REQUIRE RECONSTRUCTION TO PROPER TOLERANCES AT NO EXPENSE TO OWNER.
 4. SEE GRADING PLAN FOR ACTUAL DIFFERENCES IN GRADE BREAK ELEVATION AT BOTTOM OF RAMP.
 5. SLOPE TOLERANCE FOR CONSTRUCTION 0.5% ±

CONCRETE DRIVEWAY APRON WITH DRIVE STONES
N.T.S.

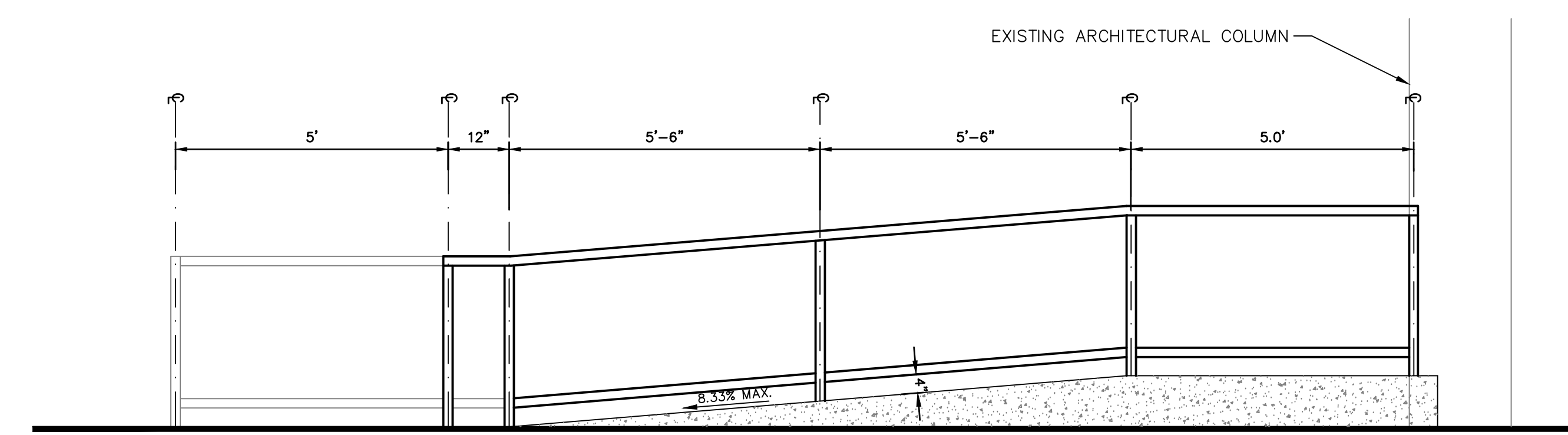


- NOTES:
1. USE 8" GRAVEL BASE COURSE FOR DRIVES WITH NO PAVED SURFACE. USE 6" CEMENT CONCRETE OVER 8" GRAVEL BASE COURSE FOR DRIVES WITH CEMENT CONCRETE.
 2. DRIVEWAYS SHALL BE INSTALLED WITH EITHER A 2' OR 3' RADIUS GRANITE CURB CORNER. SEE LAYOUT PLAN FOR CURB RADII. CONTRACTOR SHALL CONTACT OWNER OR OWNERS REPRESENTATIVE IF ANY DISCREPANCIES OCCUR ON SITE.

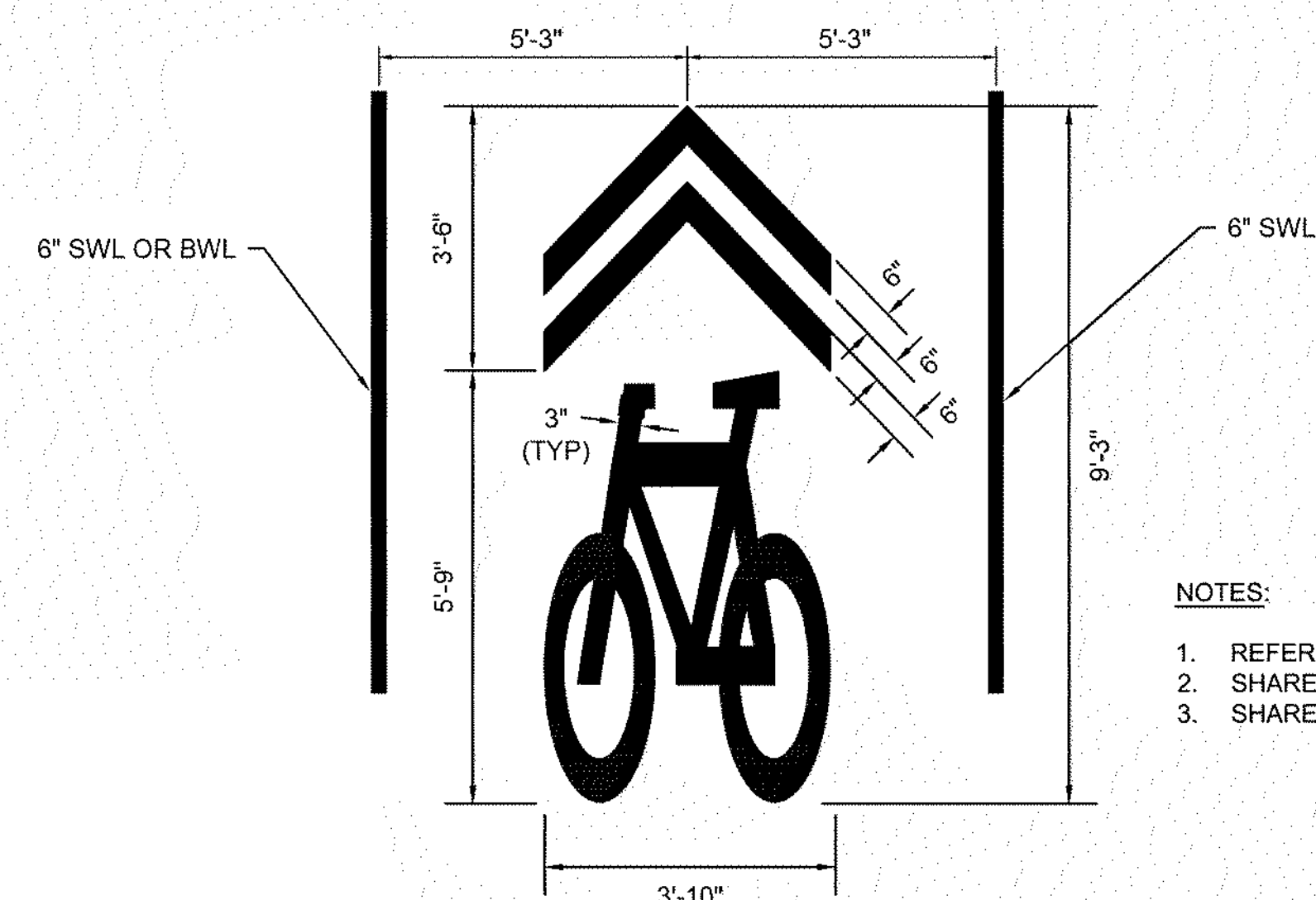
CONCRETE DRIVEWAY APRON CROSS SECTION A-A'
N.T.S.



CONCRETE DRIVEWAY APRON WITH RADIUS CURBS
N.T.S.

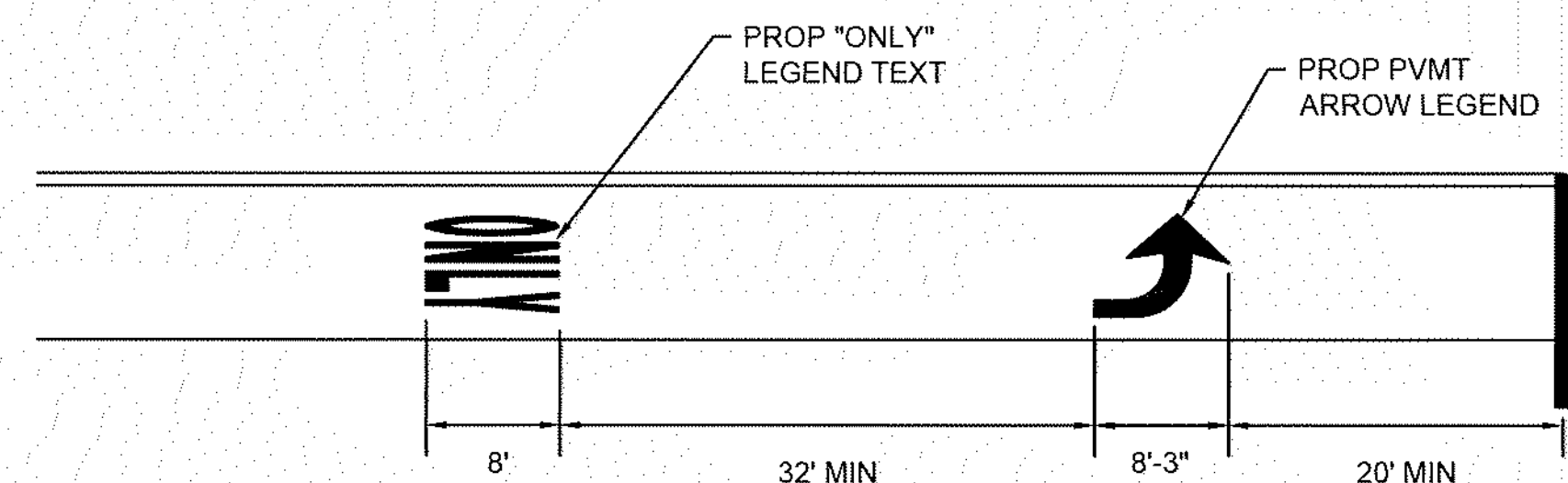


CONCRETE RAMP AND HANDRAIL
N.T.S.

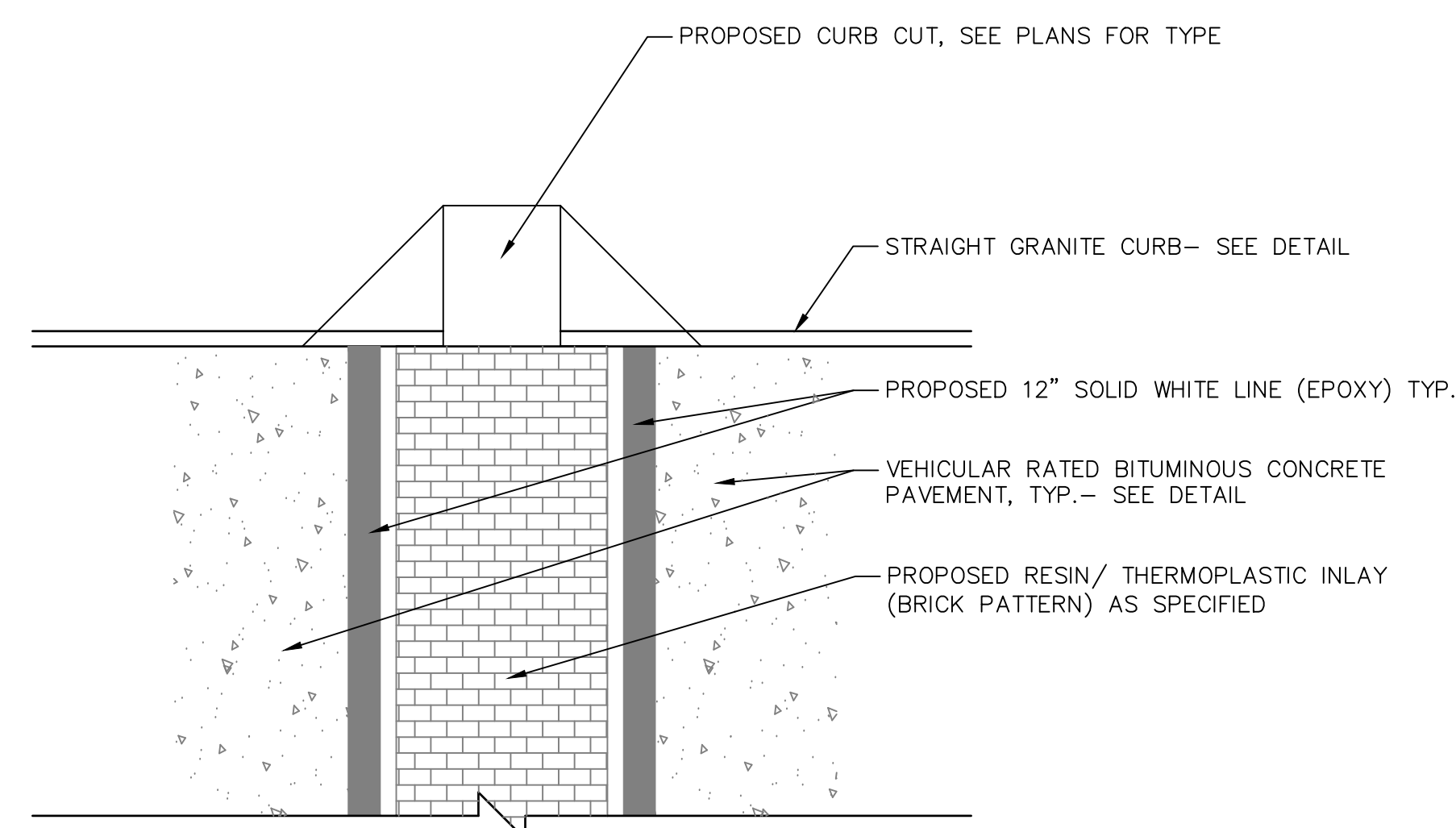


SHARED LANE PAVEMENT LEGEND DETAIL
NOT TO SCALE

- NOTES:**
- 1. REFER TO FIGURE 9C-9 IN THE MUTCD FOR MORE DETAIL.
 - 2. SHARED LANE MARKINGS SHALL BE EPOXY PAINT.
 - 3. SHARED LANE MARKINGS SHALL BE ONE PIECE.



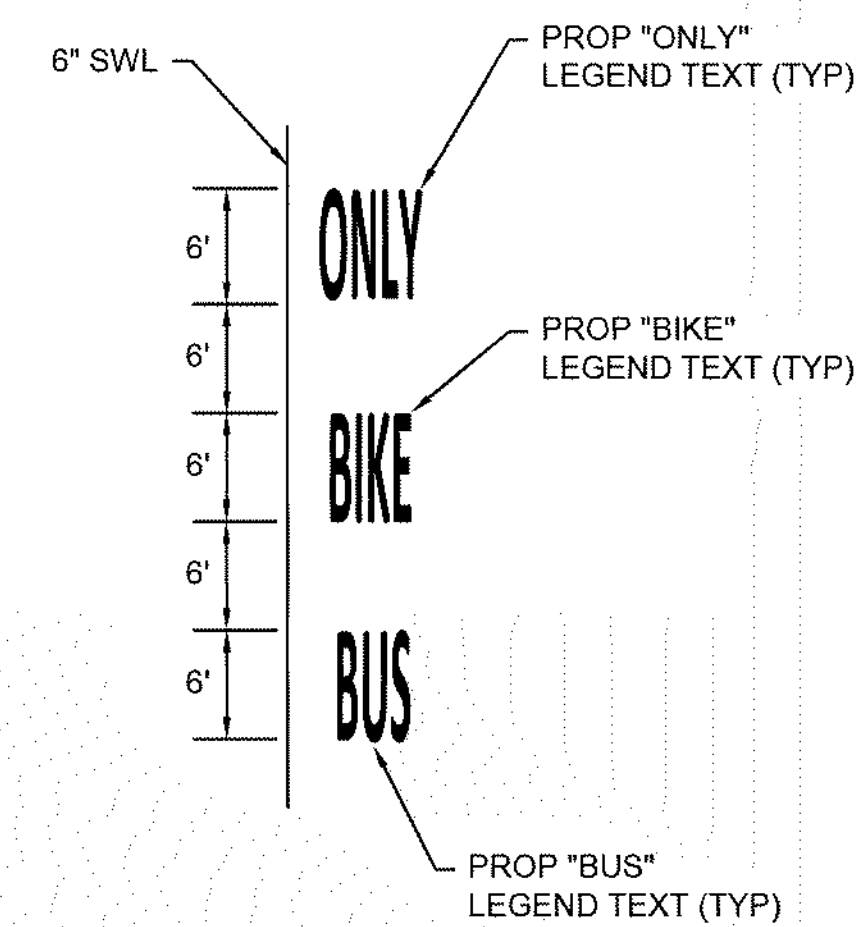
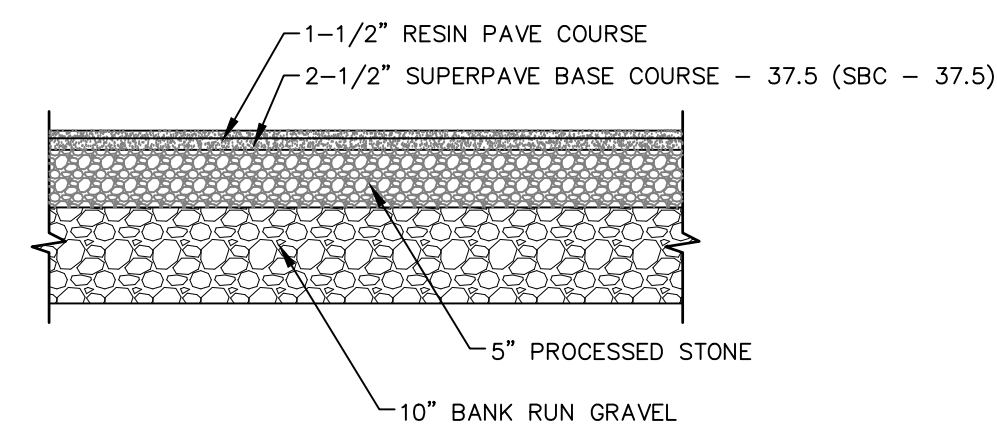
PAVEMENT ARROW AND LEGEND DETAIL
NOT TO SCALE



RESIN CROSS WALK
N.T.S.

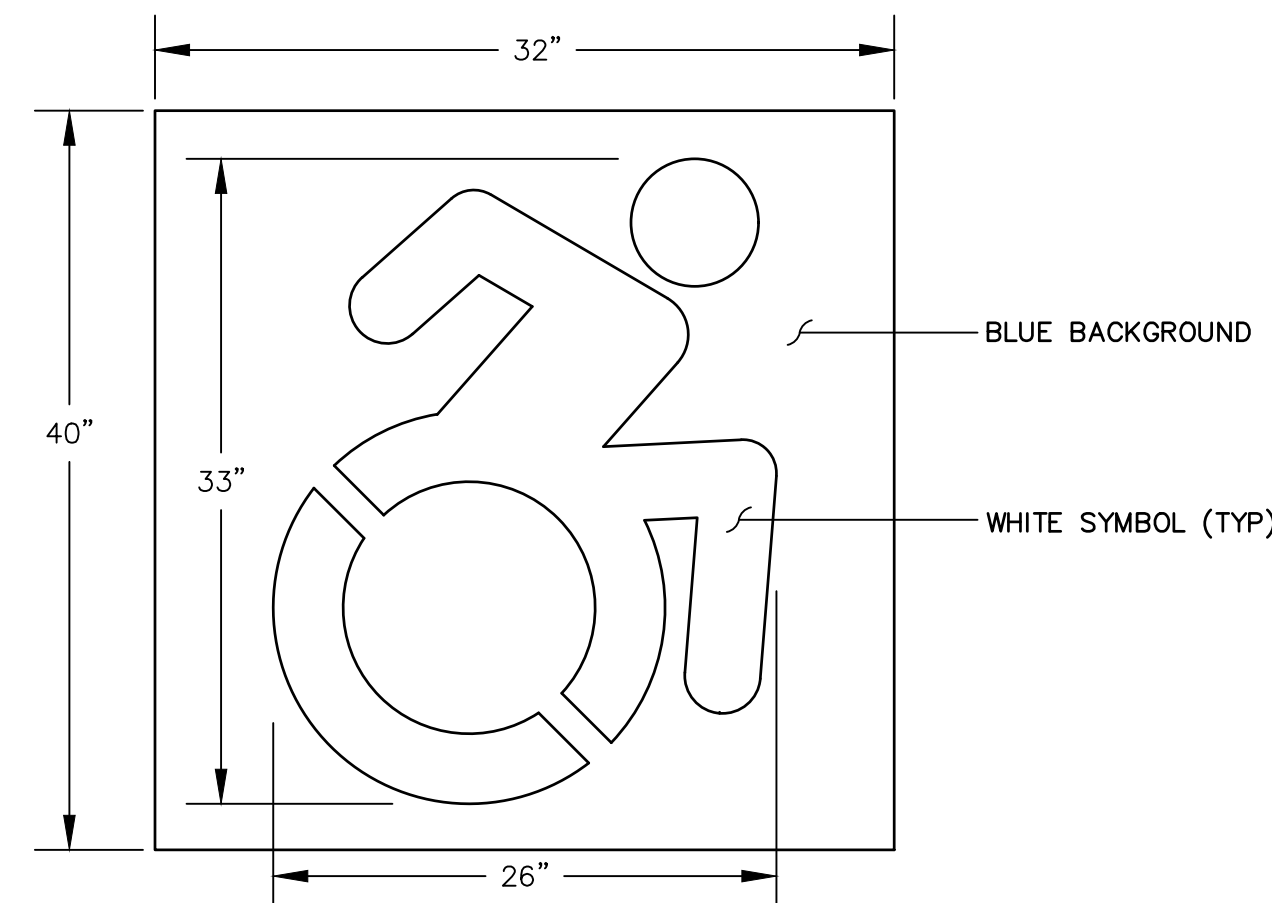


ENDURABLEND- BRICK RED HERRINGBONE PATTERN



- NOTES:**
- 1. BUS/BIKE/ONLY PAVEMENT MARKINGS SHOULD BE CENTERED IN THE LANE UNLESS OTHERWISE NOTED.

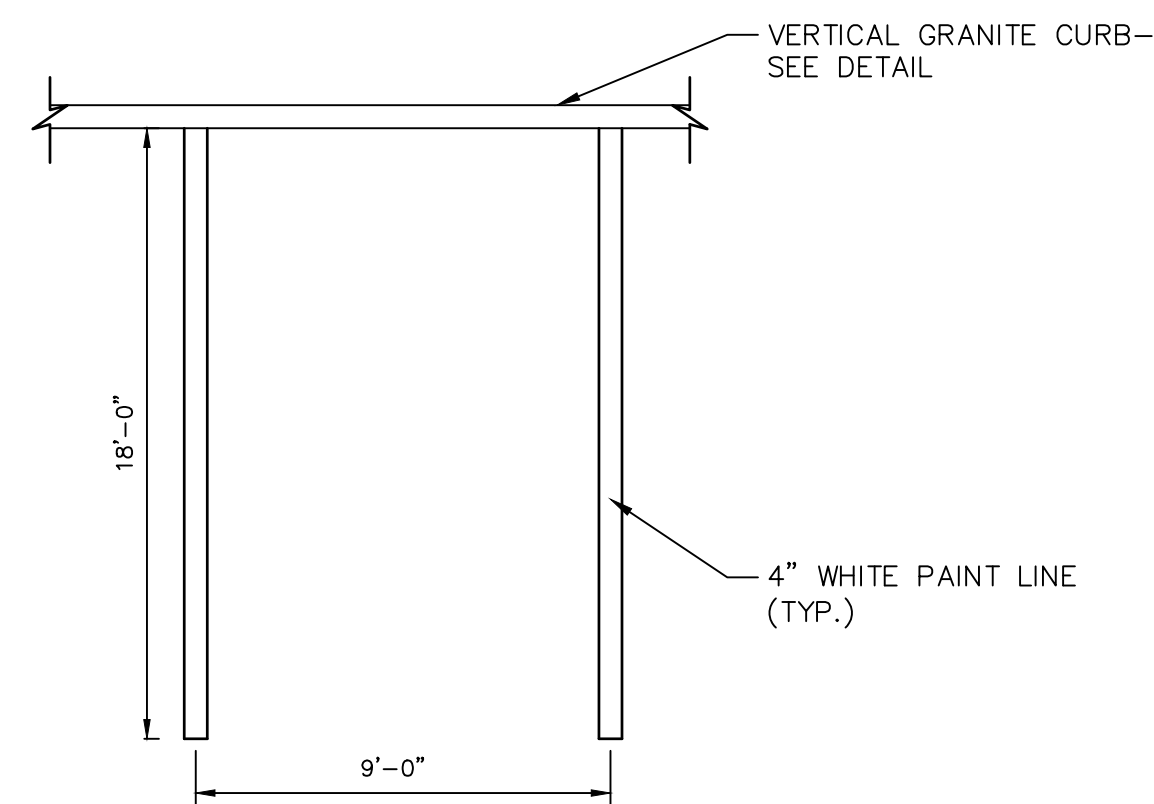
BUS BIKE ONLY PAVEMENT MARKING AND LEGEND DETAIL
NOT TO SCALE



NOTE: HANDICAP SYMBOL TO ADHERE TO STATE BUILDING CODE, LATEST EDITION

INTERNATIONAL HANDICAP SYMBOL

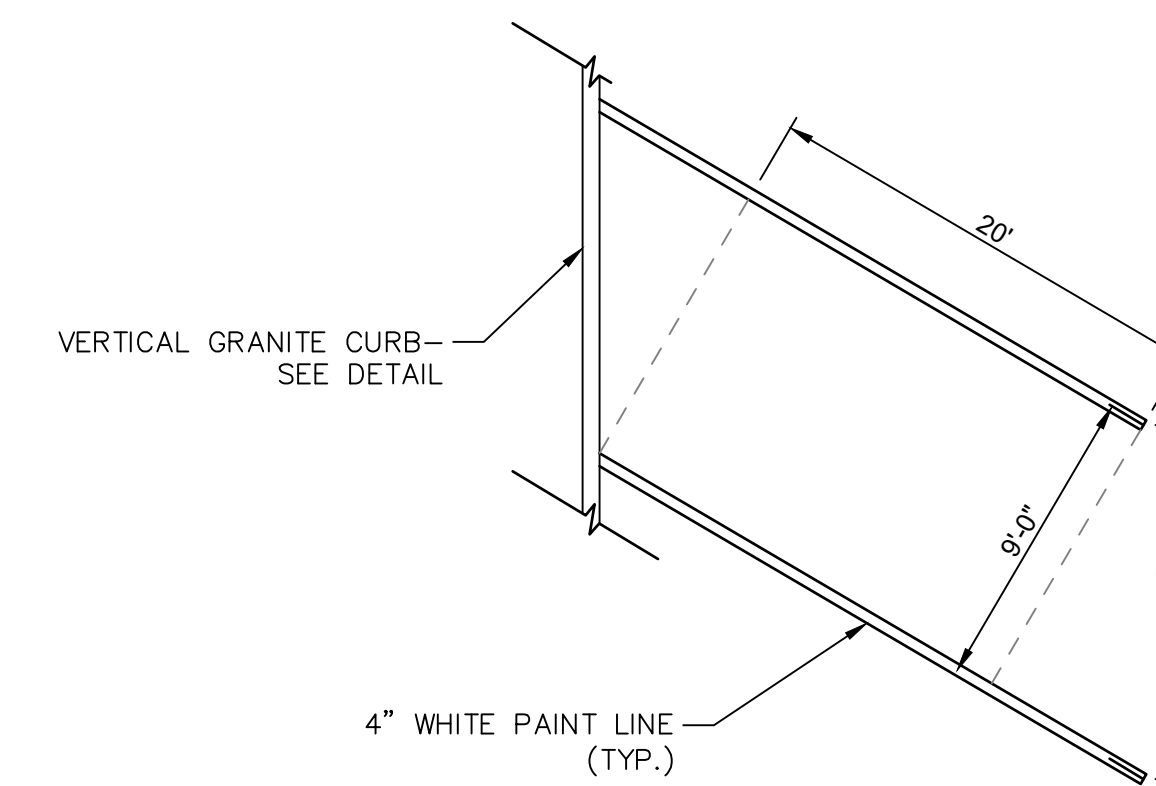
N.T.S.



NOTE:
1. PROVIDE 2 COATS OF PAINT ON ALL SURFACES.
2. SEE PLAN FOR ACTUAL SPACE LOCATION AND DIMENSIONS.

TYPICAL PARKING SPACE DETAIL

N.T.S.



NOTE:
1. PROVIDE 2 COATS OF PAINT ON ALL SURFACES.
2. SEE PLAN FOR ACTUAL SPACE LOCATION AND DIMENSIONS.

60 DEGREE ANGLED PARKING

N.T.S.



BENCH

N.T.S.

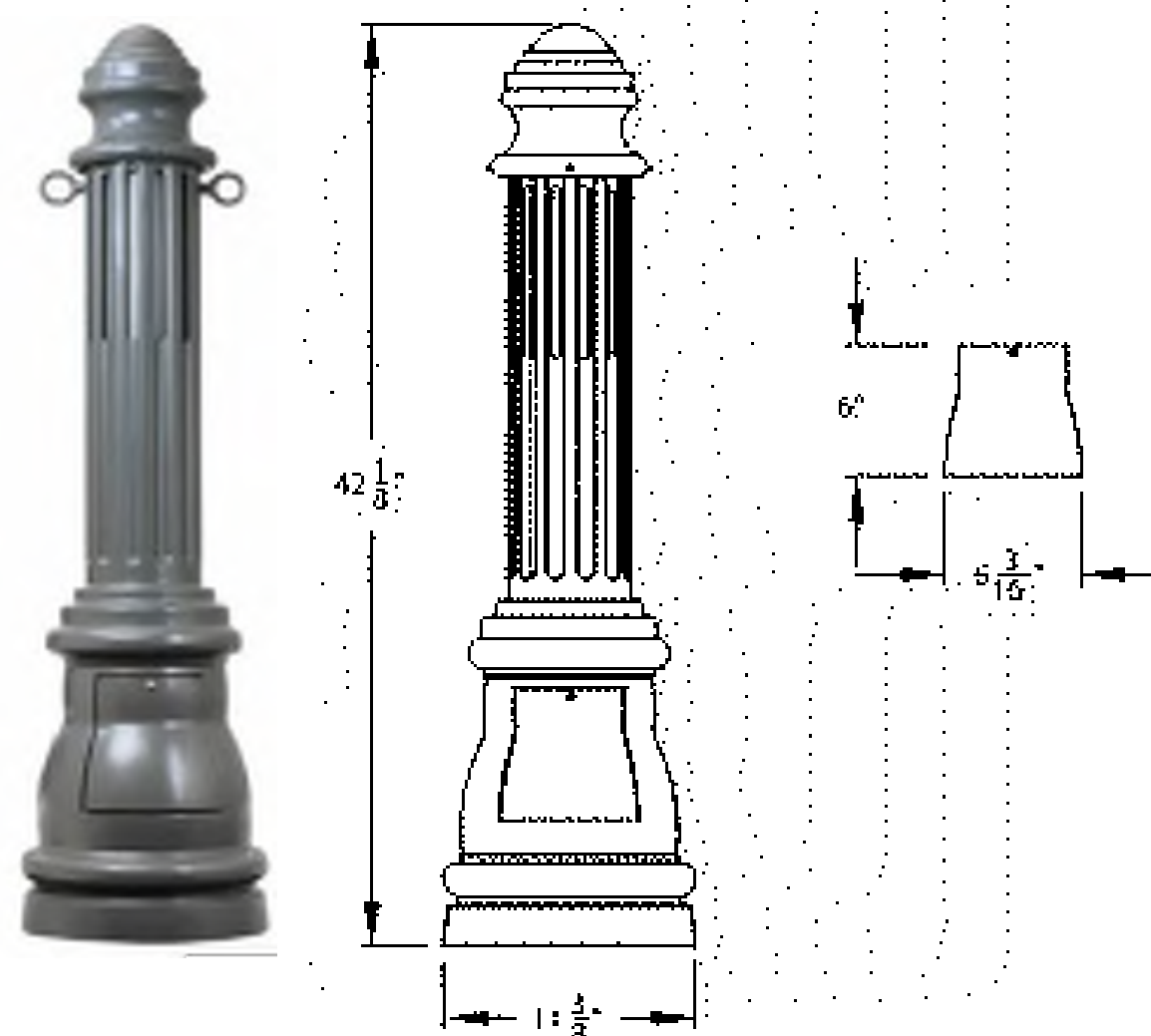
NOTE:
1. REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



BIKE RACK

N.T.S.

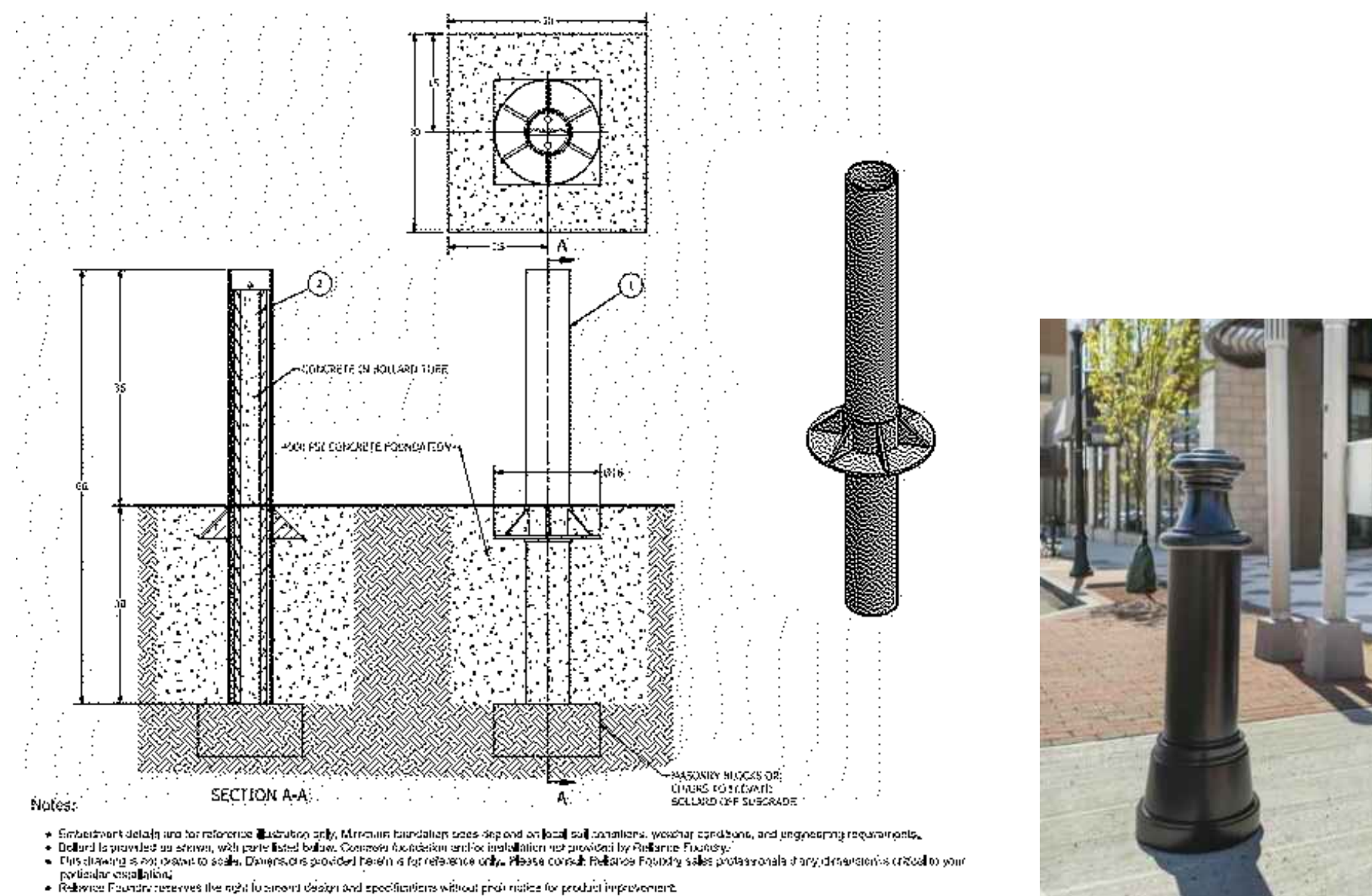
NOTE:
1. REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



LIGHTED BOLLARD

N.T.S.

MANUFACTURER: HALOPHANE (OR APPROVED EQUAL)
ADDRESS: 3825 COLUMBUS RD., GRANVILLE, OH 43023
PHONE: 866-HOLOPHANE
WEBSITE: WWW.HOLOPHANE.COM
PRODUCT: CHARLESTON LED SERIES ALUMINUM BOLLARD
COLOR: BLACK



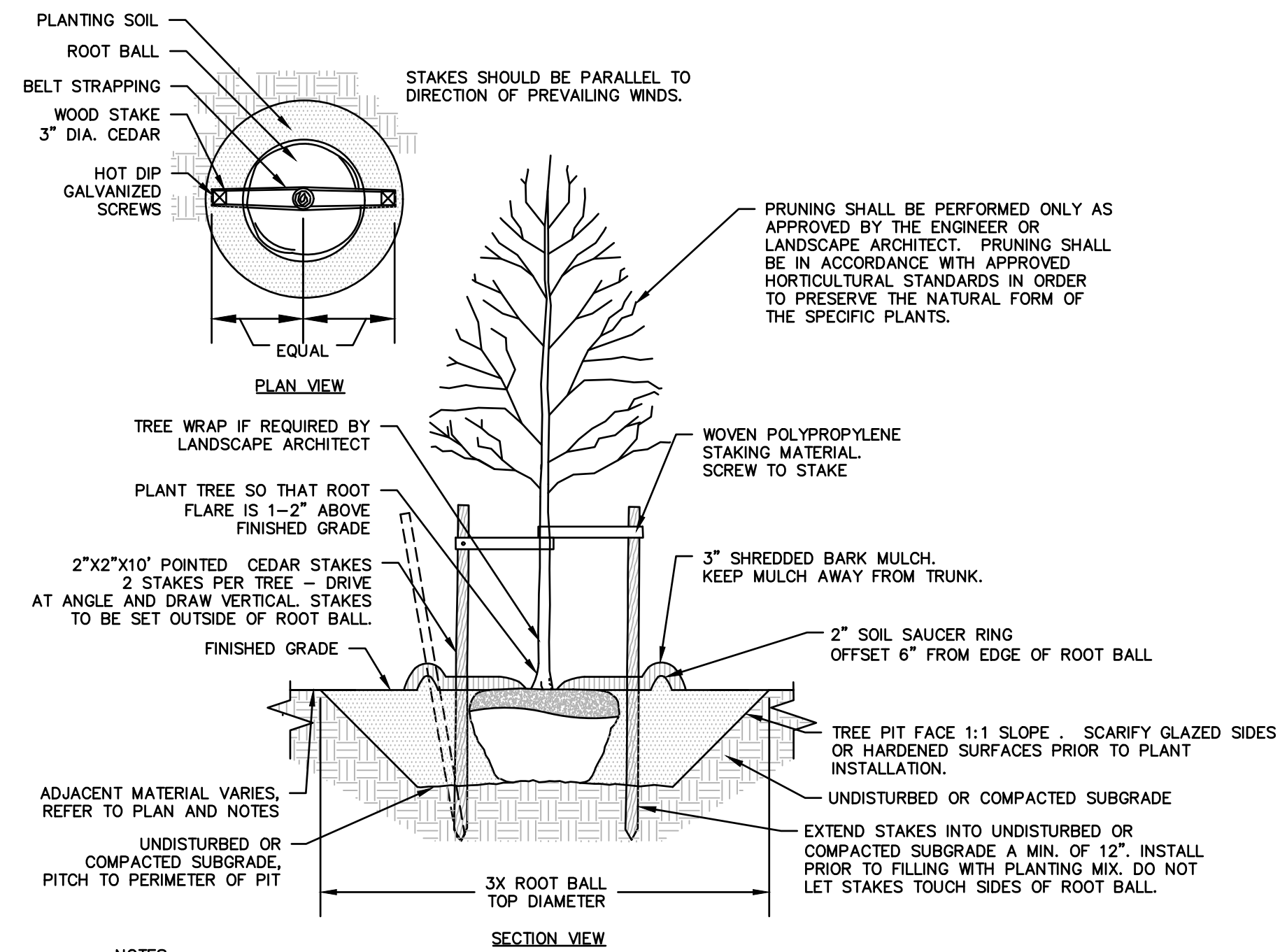
VEHICULAR RATED BOLLARD

N.T.S.

NOTE:
1. REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

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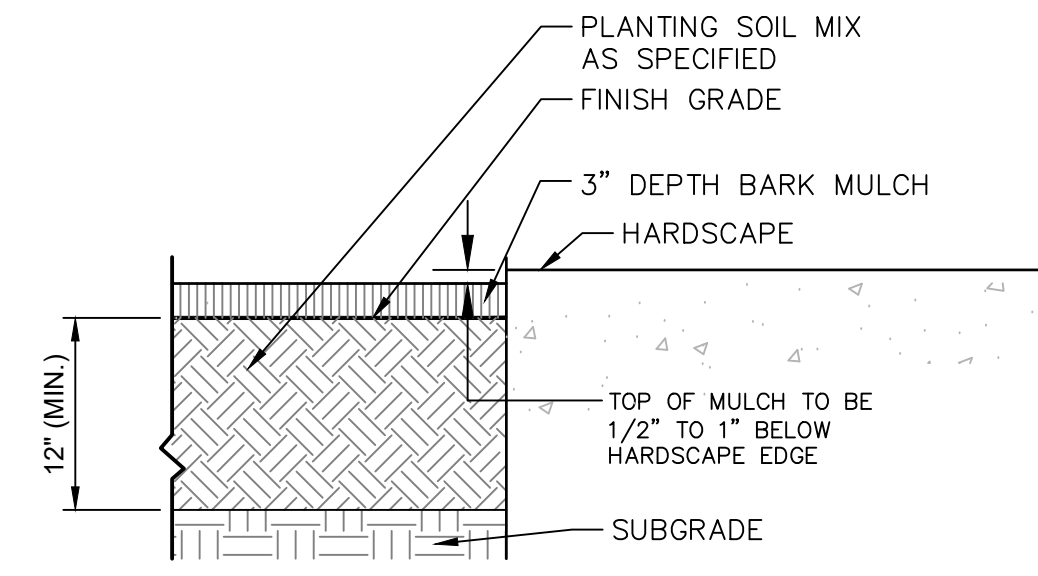
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Scale	
Project No.	2001478
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- NOTES:**
1. STAKING FOR TREES ON 4:1 SLOPES OR LESS THAN 3" CALIPER TO BE PERFORMED AT CONTRACTOR'S DISCRETION.
 2. WOVEN POLYPROPYLENE STAKING MATERIAL SHALL BE DEEPROOT ARBORITE (GREEN) OR APPROVED EQUIVALENT. MATERIAL SHALL BE LOOPED AROUND TREE THROUGH EACH OTHER, TWISTED, AND SECURED TO THE STAKE. INSTALL SPECIFIED MATERIAL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
 3. BEFORE IN HOLE, REMOVE BOTTOM OF CAGE. ONCE IN HOLE, REMOVE REST OF CAGE FROM ROOT BALL. REMOVE TWINE AND BURLAP FROM TOP 1/3 OF ROOT BALL - SCORE REMAINING 2/3 OF BURLAP. IF BURLAP IS SYNTHETIC OR HAS BEEN TREATED WITH ANTI-DESSICANT, COMPLETELY REMOVE IT FROM ROOT BALL.

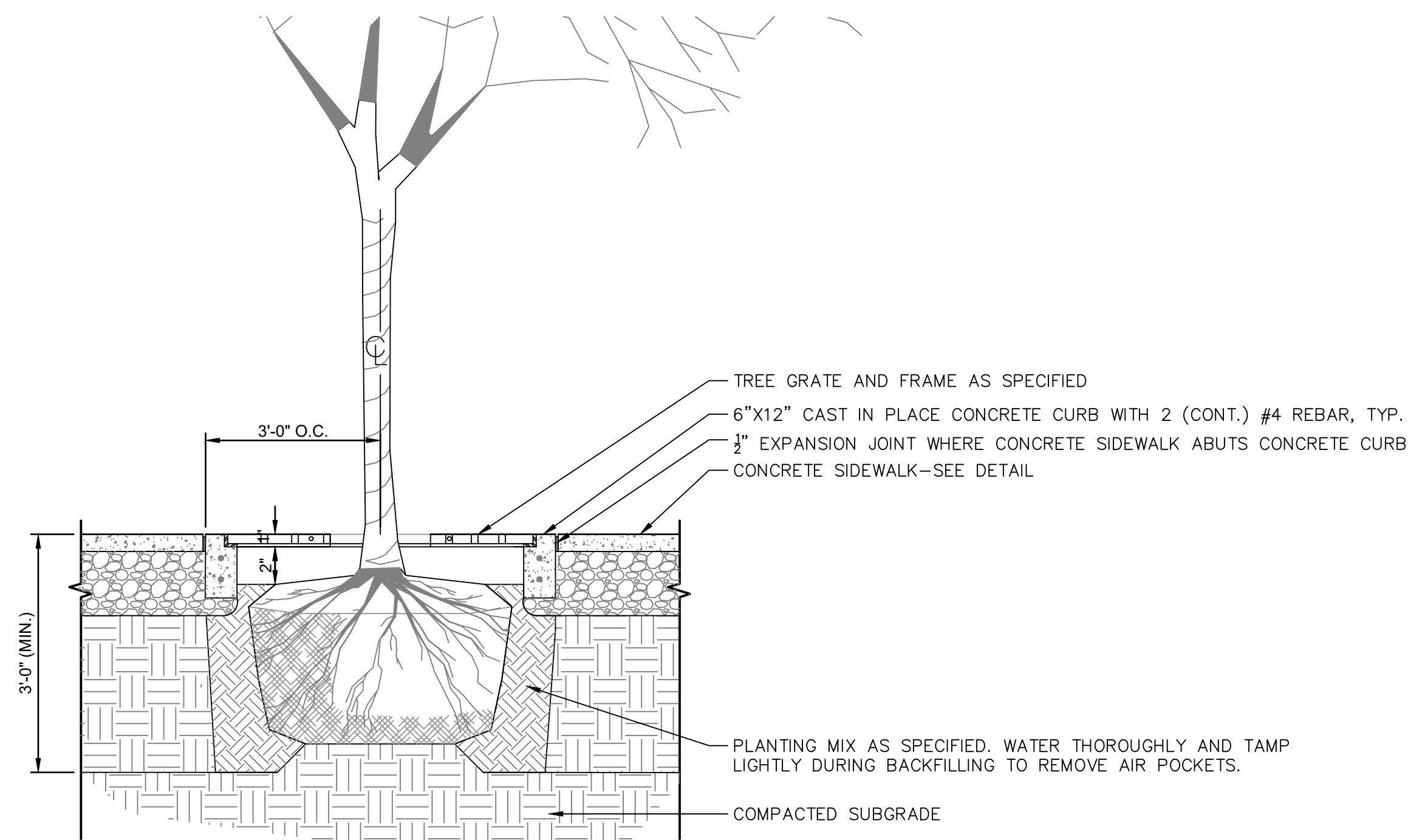
DECIDUOUS TREE PLANTING

N.T.S.



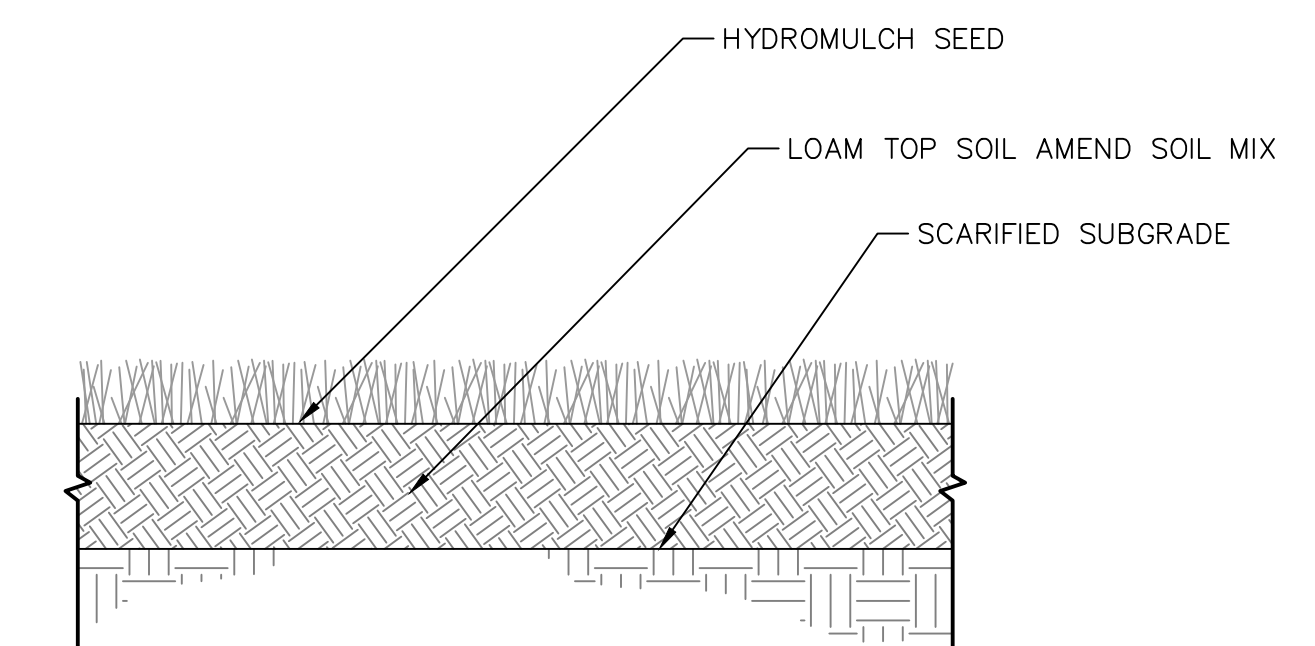
MULCH PLANT BED

N.T.S.



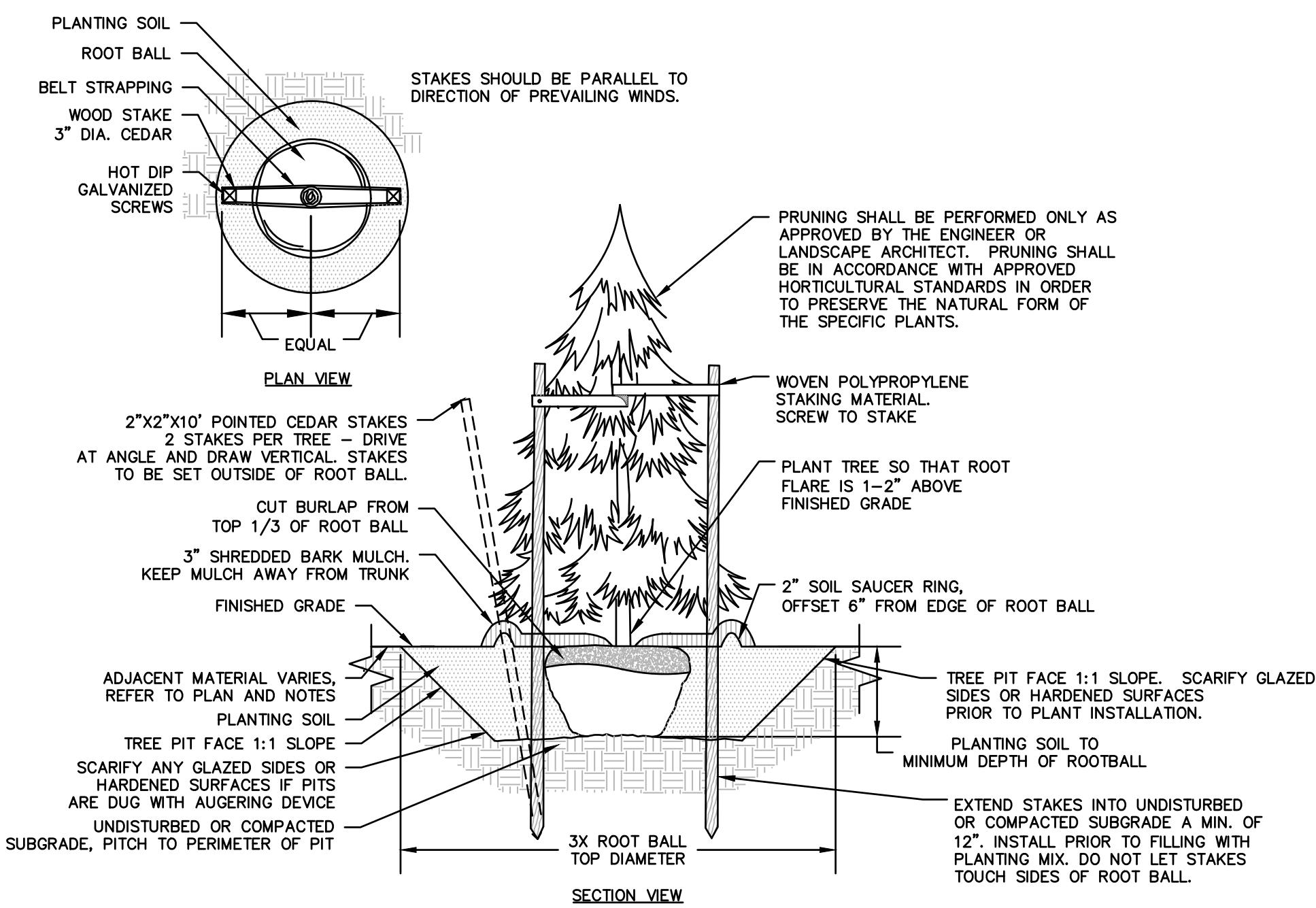
TREE GRATE

N.T.S.



LOAM AND SEED, TYP.

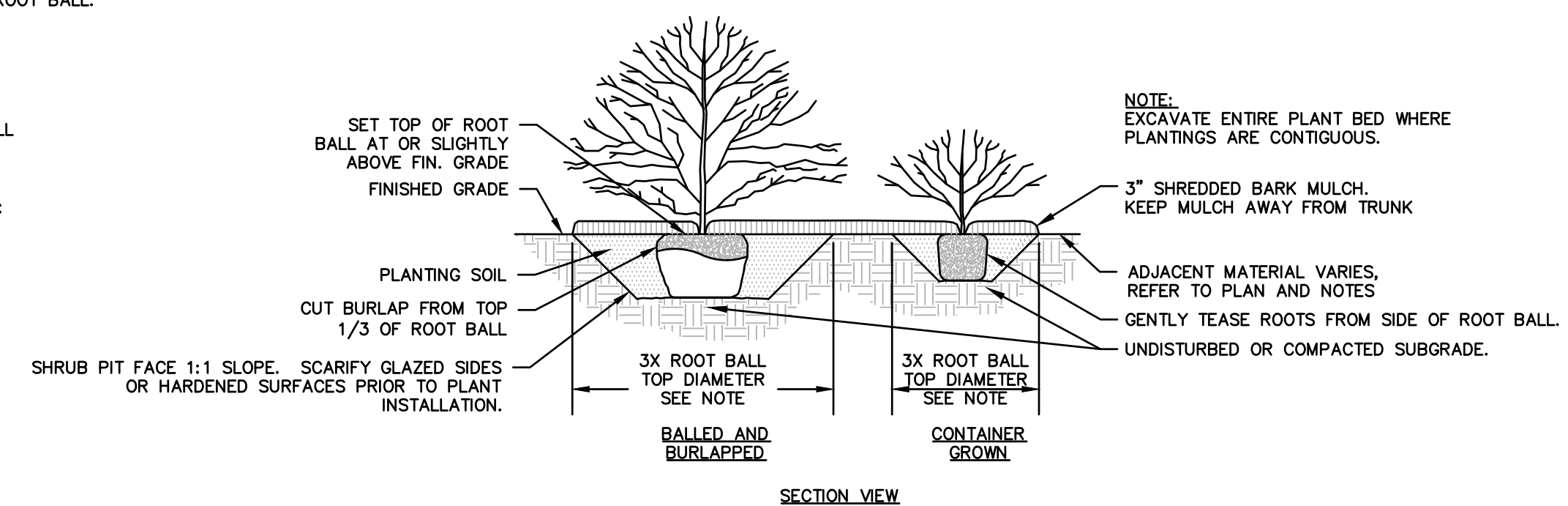
N.T.S.



- NOTES:**
1. STAKING FOR TREES ON 4:1 SLOPES OR LESS TO BE PERFORMED AT CONTRACTOR'S DISCRETION.
 2. WOVEN POLYPROPYLENE STAKING MATERIAL SHALL BE DEEPROOT ARBORITE (GREEN) OR APPROVED EQUIVALENT. MATERIAL SHALL BE LOOPED AROUND TREE THROUGH EACH OTHER, TWISTED, AND SECURED TO THE STAKE. INSTALL SPECIFIED MATERIAL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
 3. BEFORE IN HOLE, REMOVE BOTTOM OF CAGE. ONCE IN HOLE, REMOVE REST OF CAGE FROM ROOT BALL. REMOVE TWINE AND BURLAP FROM TOP 1/3 OF ROOT BALL - SCORE REMAINING 2/3 OF BURLAP. IF BURLAP IS SYNTHETIC OR HAS BEEN TREATED WITH ANTI-DESSICANT, COMPLETELY REMOVE IT FROM ROOT BALL.

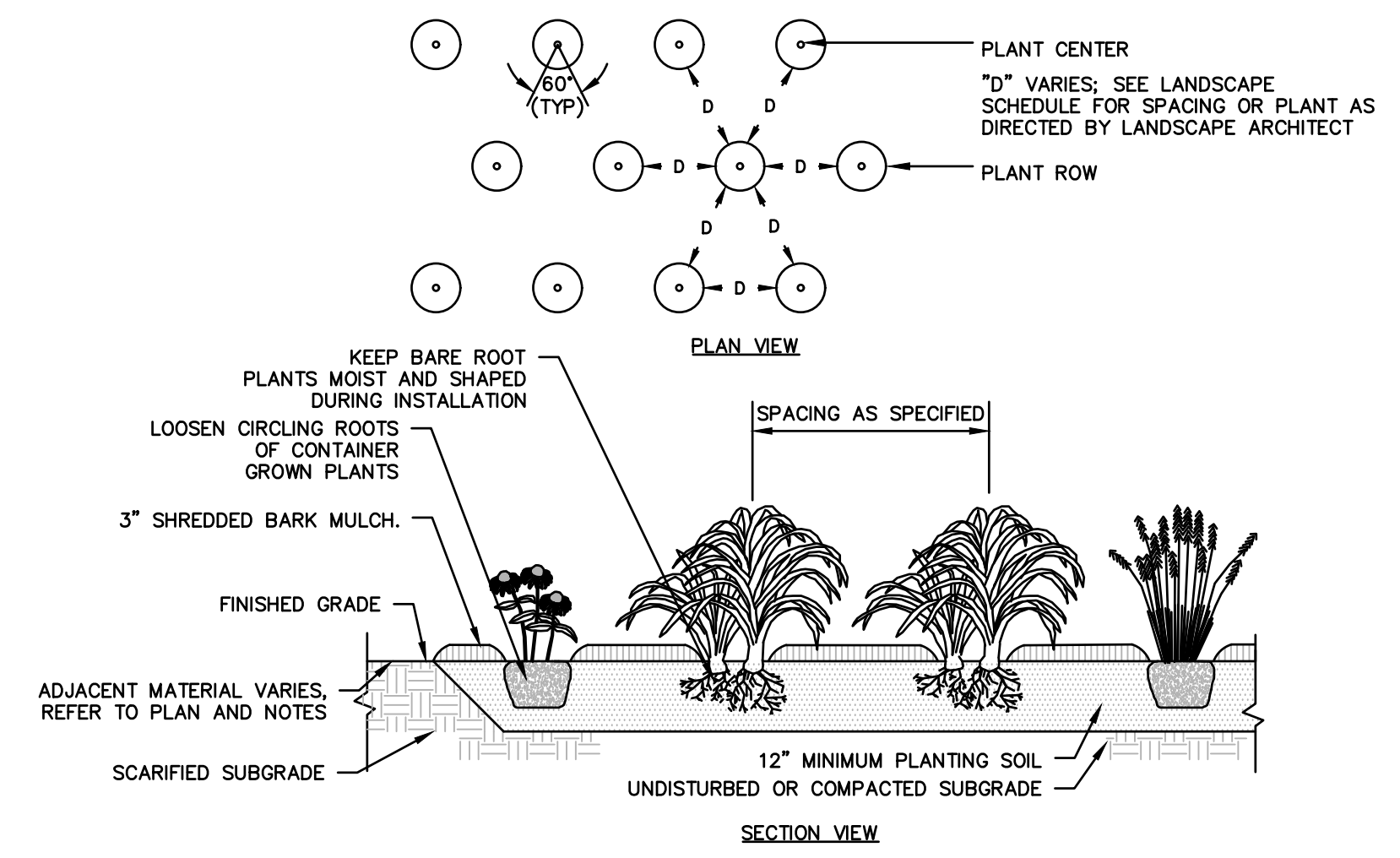
EVERGREEN TREE PLANTING

N.T.S.



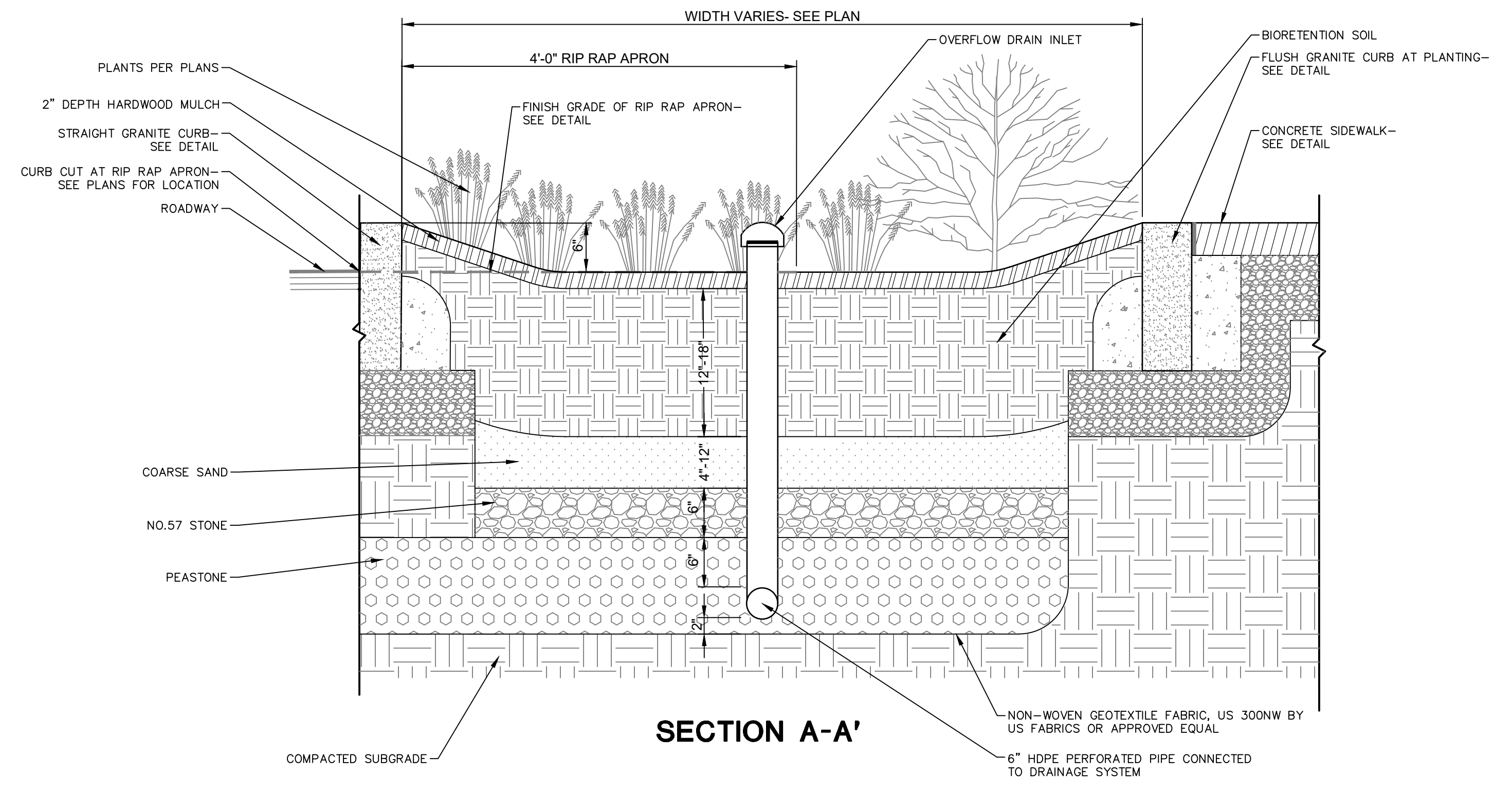
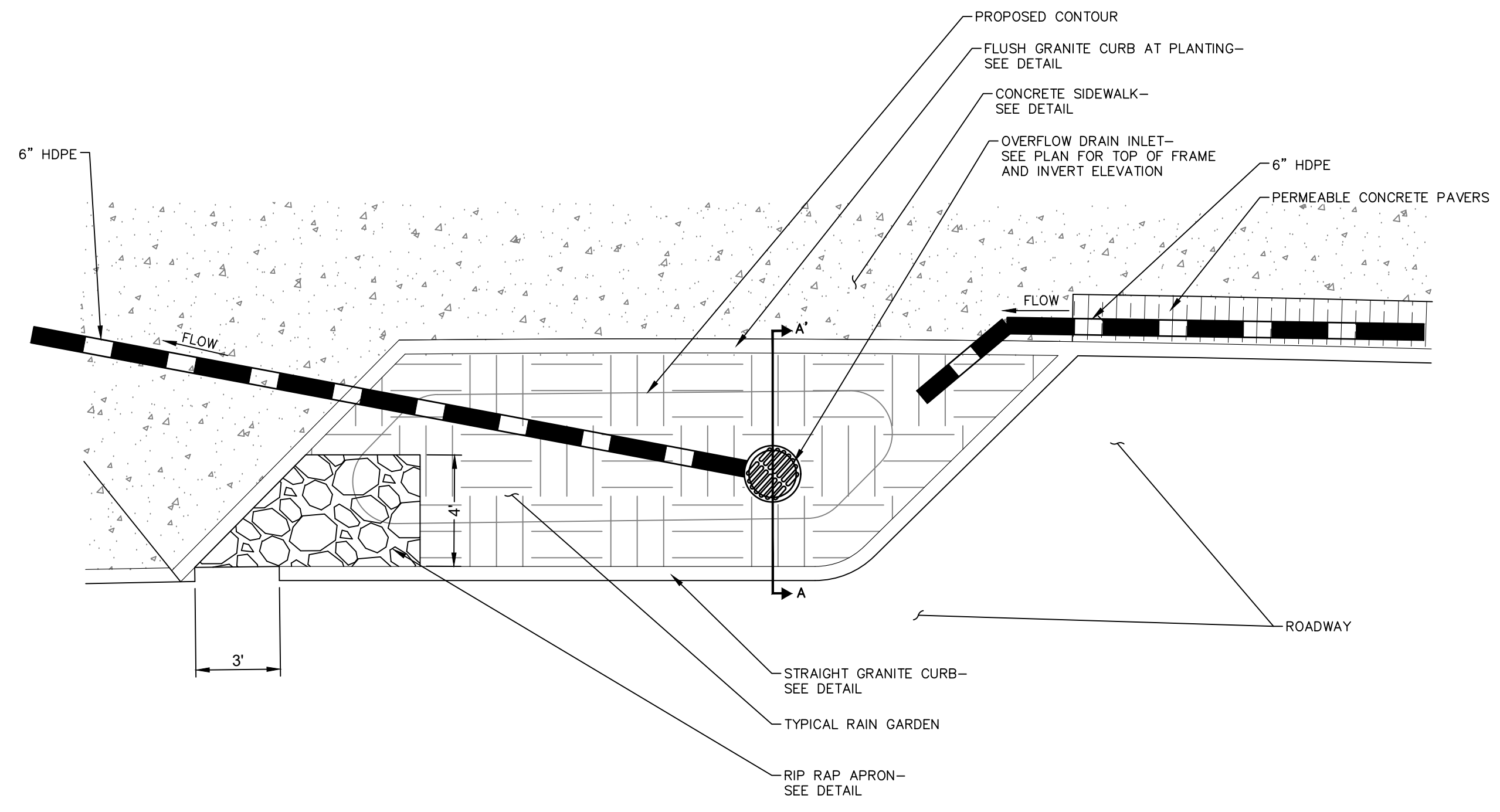
SHRUB PLANTING, TYP.

N.T.S.

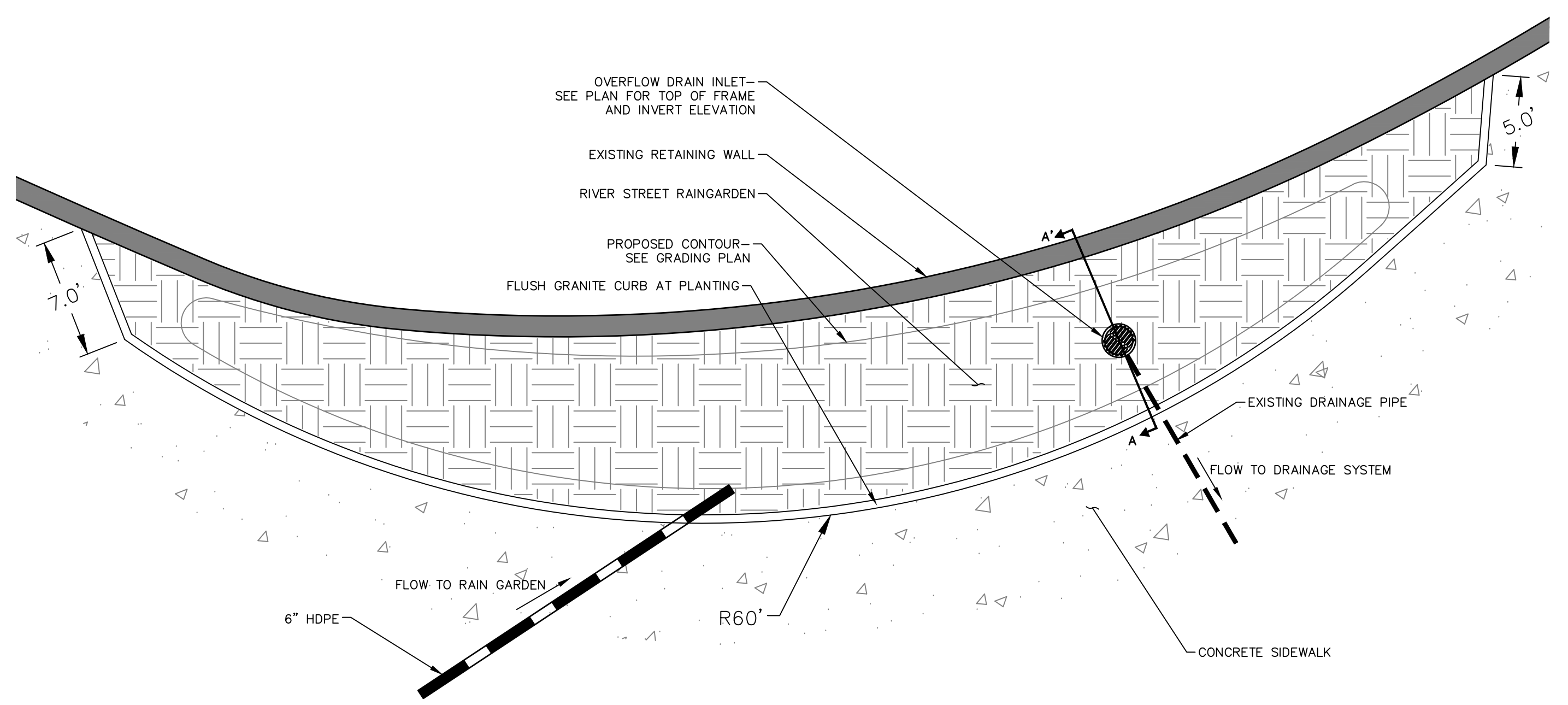


GROUNDCOVER/PERENNIAL PLANTING

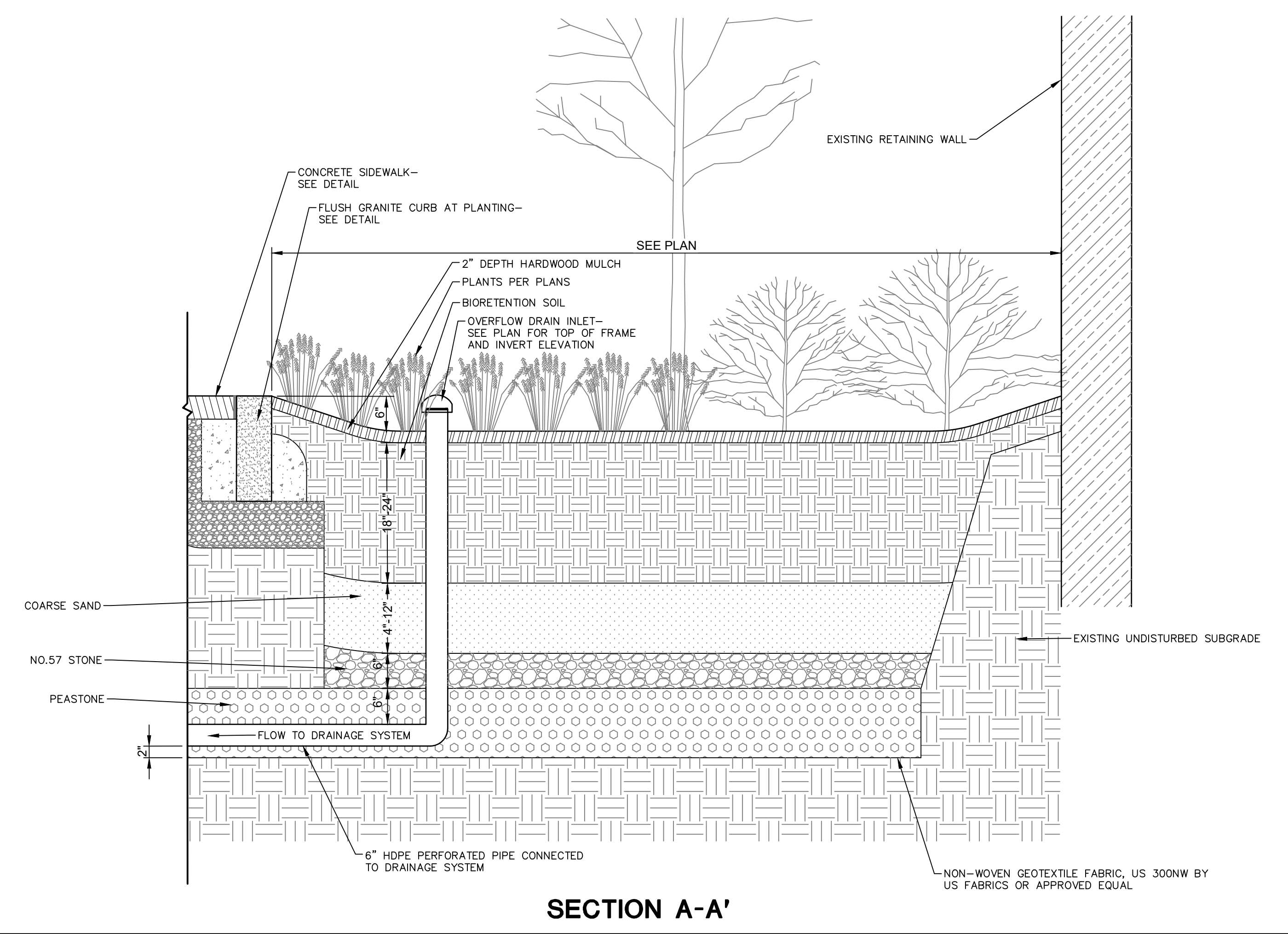
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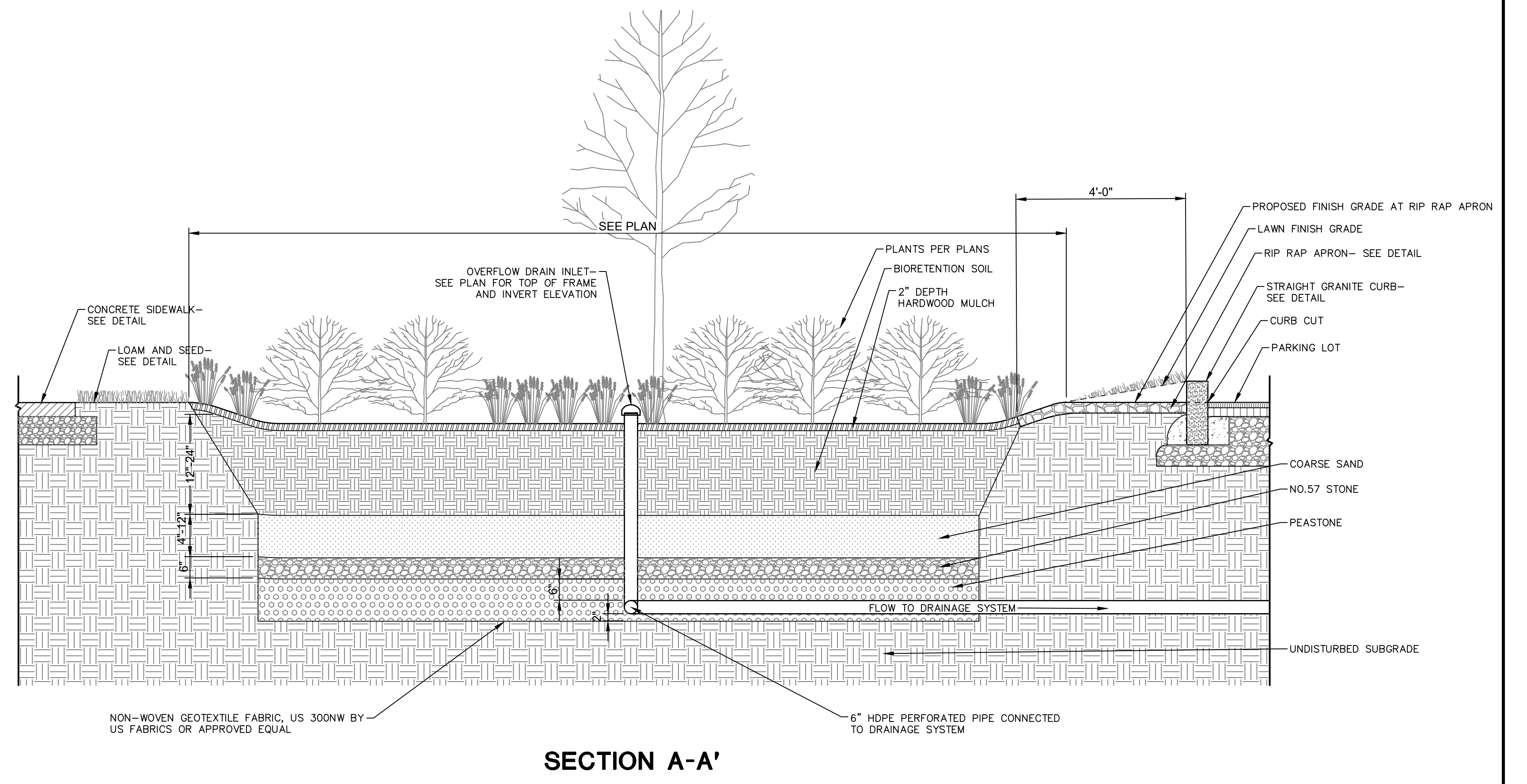
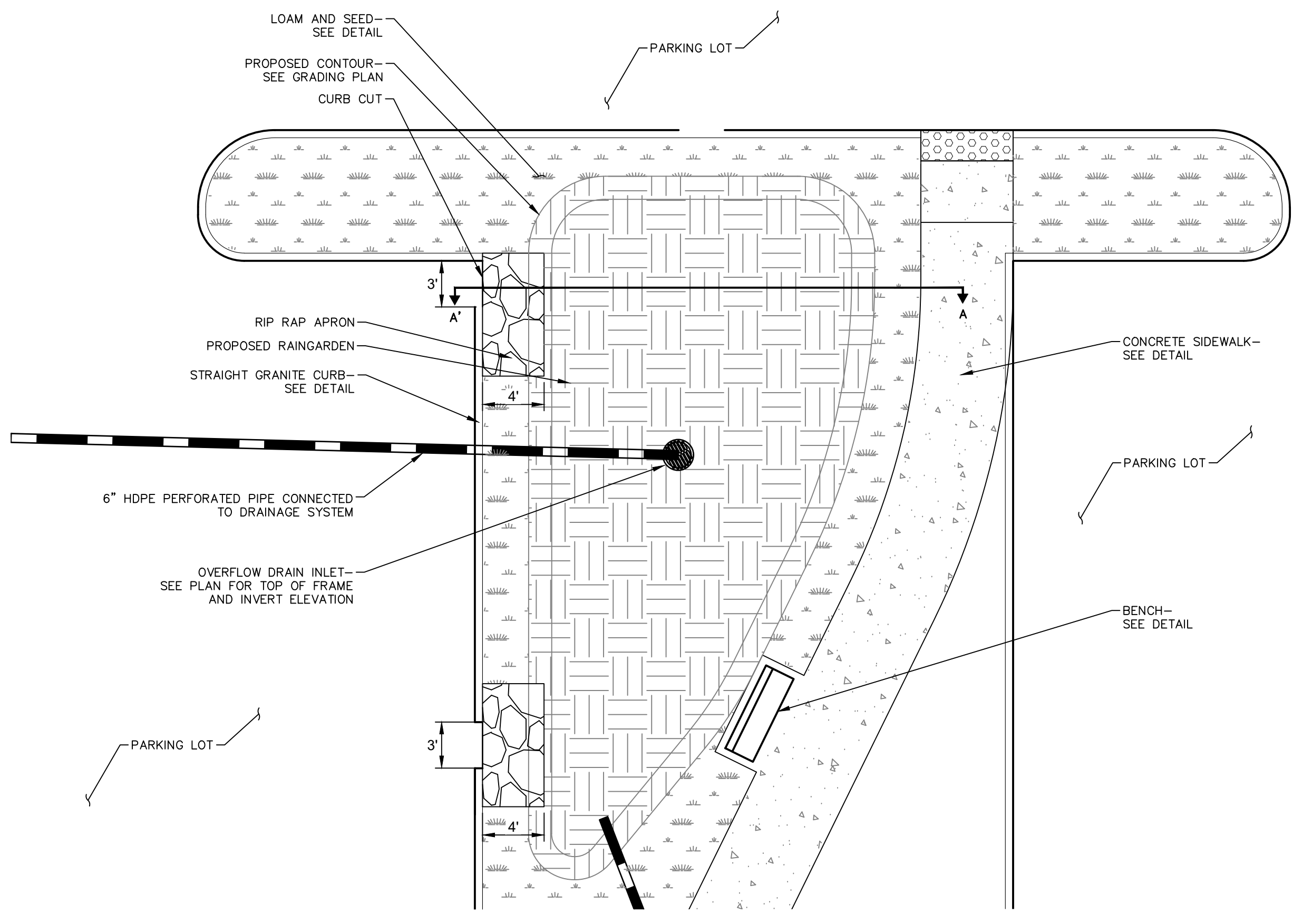
TYPICAL RAIN GARDEN DETAIL
N.T.S.



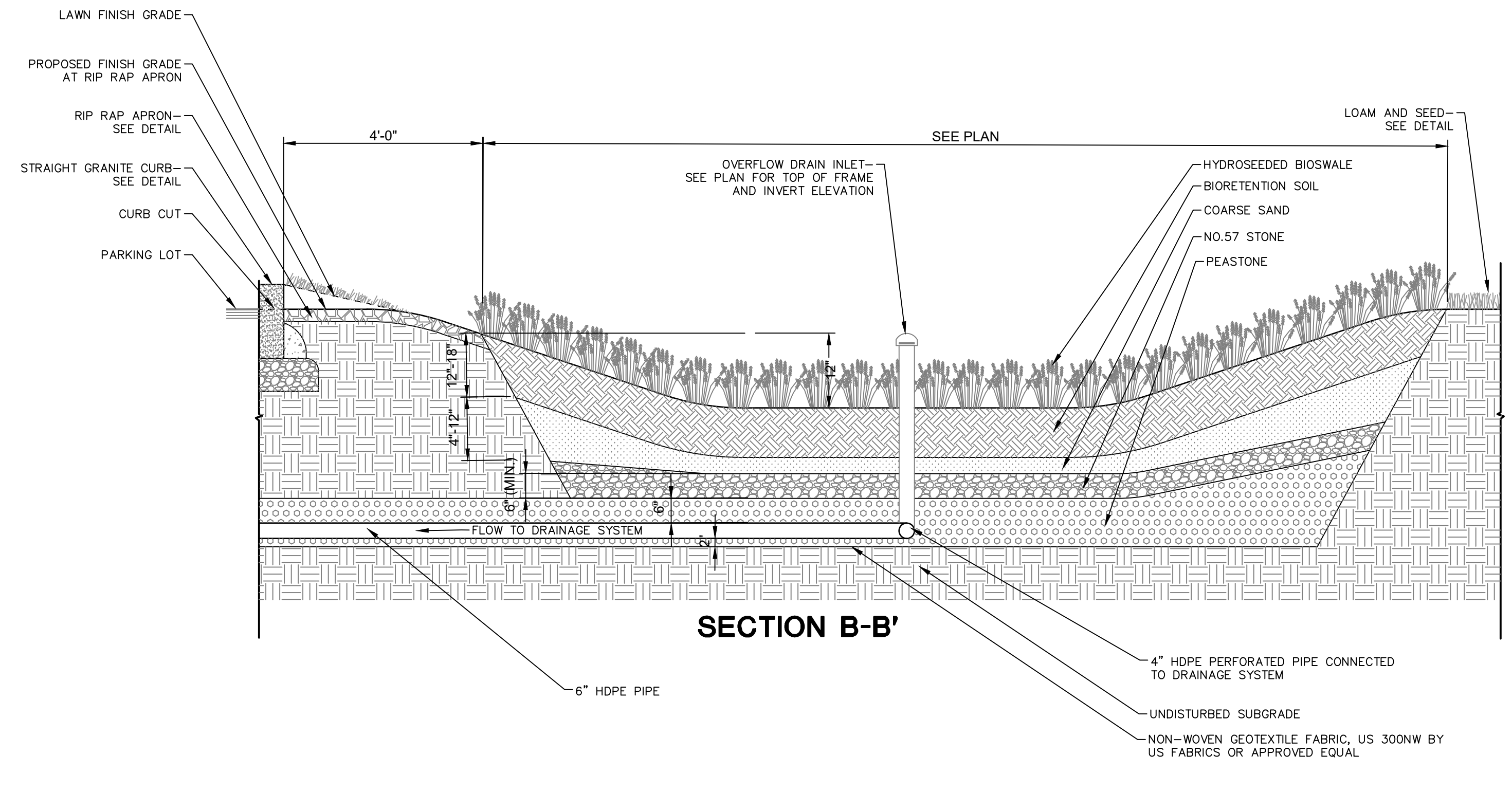
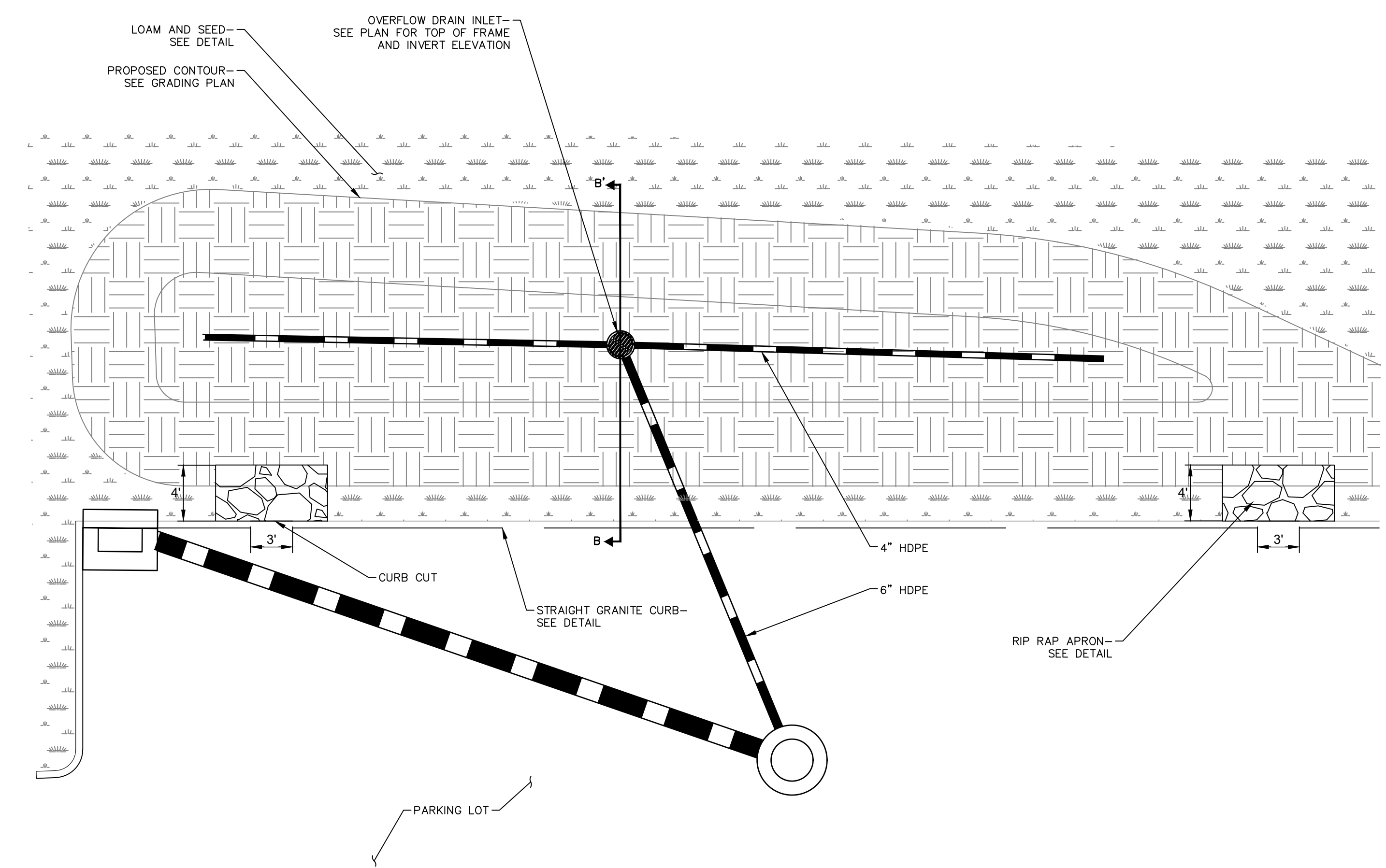
RIVER STREET RAIN GARDEN DETAIL
N.T.S.



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RAIN GARDEN AT PARKING LOT DETAIL
N.T.S.



BIOSWALE AT PARKING LOT
N.T.S.

REVISIONS	
No.	Date

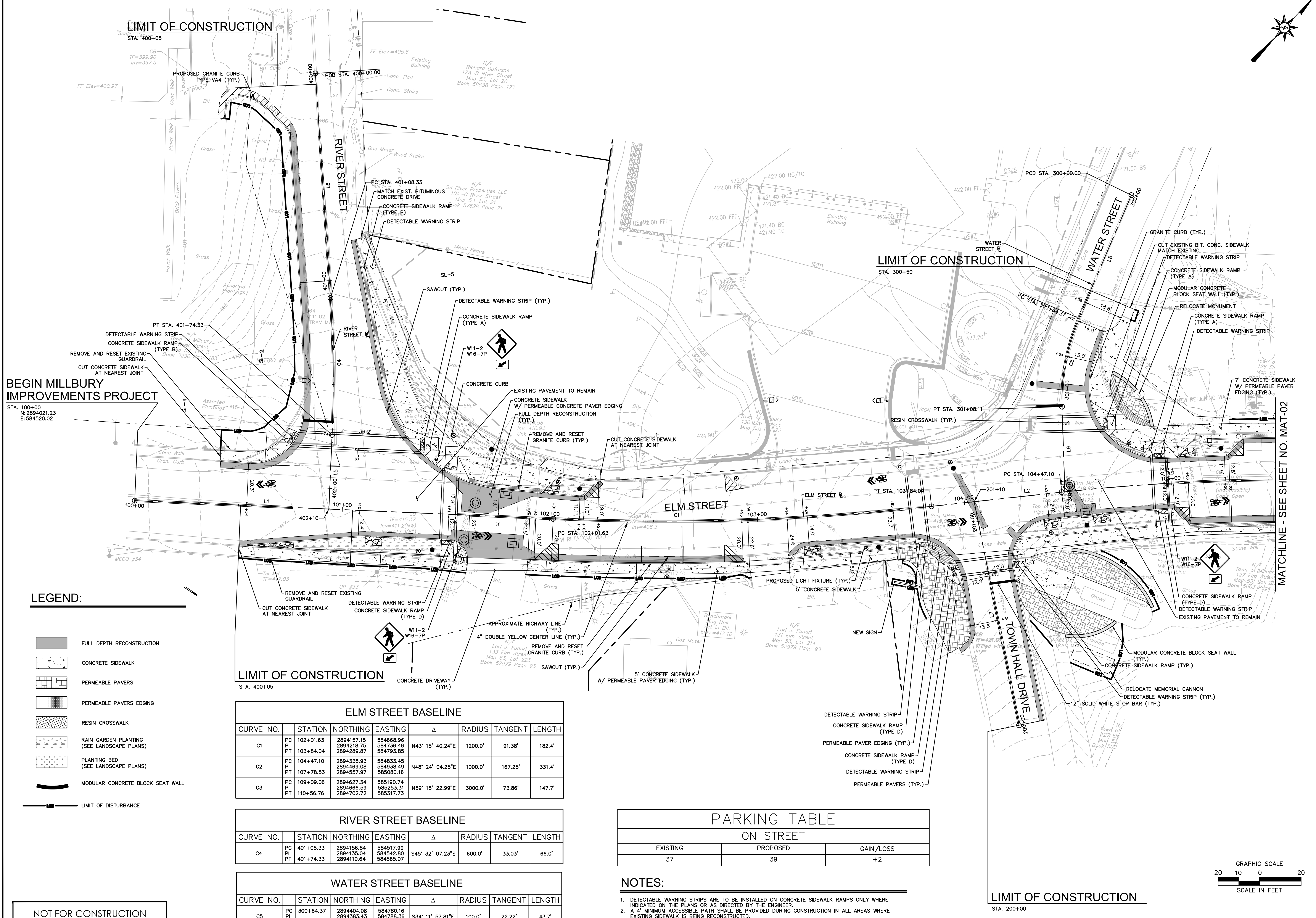
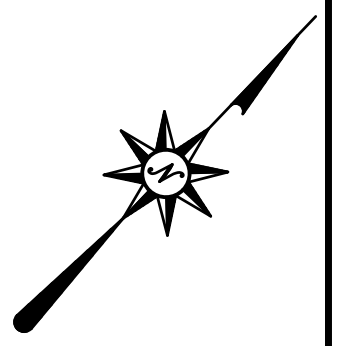
Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	May, 2021
CAD File:	DN200147801

Title
SITE LANDSCAPE DETAILS

Sheet No.

DN-12

5/24/2021, 10:49:02 AM, C:\PROJECTS\2021\2001478\200147801\200147801.dwg, 12:12:12
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BEGIN MILLBURY IMPROVEMENTS PROJECT
STA. 100+00
N: 2894021.23
E: 584520.02

LEGEND:

- FULL DEPTH RECONSTRUCTION
- CONCRETE SIDEWALK
- PERMEABLE PAVERS
- PERMEABLE PAVERS EDGING
- RESIN CROSSWALK
- RAIN GARDEN PLANTING (SEE LANDSCAPE PLANS)
- PLANTING BED (SEE LANDSCAPE PLANS)
- MODULAR CONCRETE BLOCK SEAT WALL
- LIMIT OF DISTURBANCE

ELM STREET BASELINE

CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C1	PC	2894157.15	584668.98	N43° 15' 40.24"E	1200.0'	91.38'	182.4'
	PI	2894218.75	584736.46				
	PT	2894289.87	584793.85				
C2	PC	2894338.93	584833.45	N48° 24' 04.25"E	1000.0'	167.25'	331.4'
	PI	2894469.08	584938.49				
	PT	2894557.97	585080.16				
C3	PC	2894627.34	585190.74	N59° 18' 22.99"E	3000.0'	73.86'	147.7'
	PI	2894666.59	585253.31				
	PT	2894702.72	585317.73				

RIVER STREET BASELINE

CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C4	PC	2894156.84	584517.99	S45° 32' 07.23"E	600.0'	33.03'	66.0'
	PI	2894135.04	584542.80				
	PT	2894110.64	584565.07				

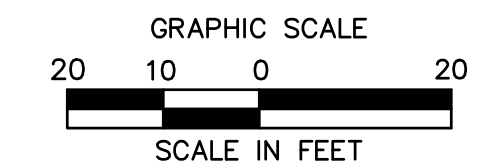
WATER STREET BASELINE

CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C5	PC	2894404.08	584780.16	S34° 11' 57.81"E	100.0'	22.22'	43.7'
	PI	2894383.43	584788.36				
	PT	2894368.20	584804.55				

PARKING TABLE ON STREET

EXISTING	PROPOSED	GAIN/LOSS
37	39	+2

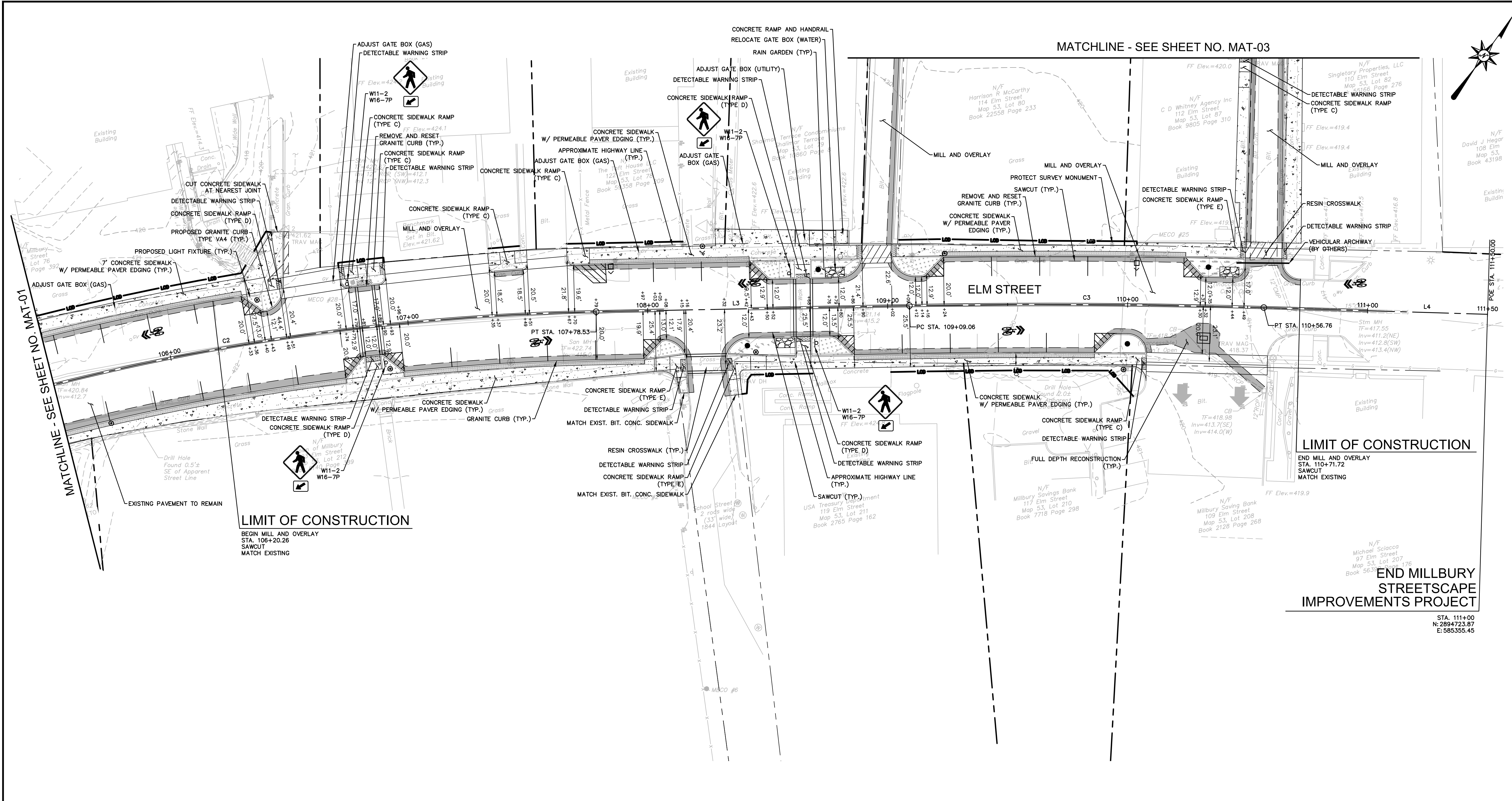
- NOTES:**
- DETECTABLE WARNING STRIPS ARE TO BE INSTALLED ON CONCRETE SIDEWALK RAMPS ONLY WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - A 4' MINIMUM ACCESSIBLE PATH SHALL BE PROVIDED DURING CONSTRUCTION IN ALL AREAS WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED.



NOT FOR CONSTRUCTION

LIMIT OF CONSTRUCTION
STA. 200+00

5/24/2021, 10:45:00 AM, I:\COMPANIES\DESIGN\PROJECTS\2021\21001478\MAT001\MAT001.DWG (W:\20210524\21001478\MAT001.DWG)



LEGEND:

- CONCRETE DRIVEWAY
- FULL DEPTH RECONSTRUCTION
- CONCRETE SIDEWALK
- PERMEABLE PAVER EDGING
- RESIN CROSSWALK
- RAIN GARDEN PLANTING (SEE LANDSCAPE PLANS)
- PLANTING BED (SEE LANDSCAPE PLANS)
- VEHICULAR ARCHWAY (BY OTHERS)
- LIMIT OF DISTURBANCE

NOT FOR CONSTRUCTION

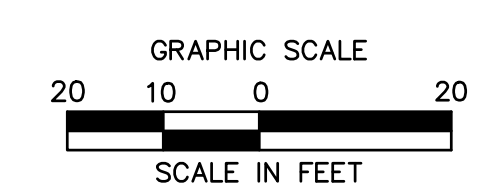
ELM STREET BASELINE							
CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C1	PC 102+01.63	2894157.15	584668.96	N43° 15' 40.24"E	1200.0'	91.38'	182.4'
	PI 103+84.04	2894218.75	584736.46				
C2	PC 104+47.10	2894338.93	584833.45	N48° 24' 04.25"E	1000.0'	167.25'	331.4'
	PI 107+78.53	2894463.08	585080.16				
C3	PC 109+09.06	2894627.34	585190.74	N59° 18' 22.99"E	3000.0'	73.86'	147.7'
	PI 110+56.76	2894666.59	585253.31				

RIVER STREET BASELINE							
CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C4	PC 401+08.33	2894156.84	584517.99	S45° 32' 07.23"E	600.0'	33.03'	66.0'
	PI 401+74.33	2894110.64	584565.07				

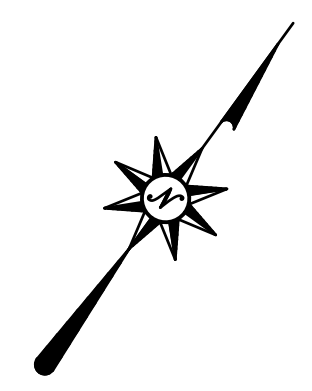
WATER STREET BASELINE							
CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C5	PC 300+64.37	2894404.08	584780.16	S34° 11' 57.81"E	100.0'	22.22'	43.7'
	PI 301+08.11	2894363.43	584785.36				

PARKING TABLE ON STREET		
EXISTING	PROPOSED	GAIN/LOSS
37	39	+2

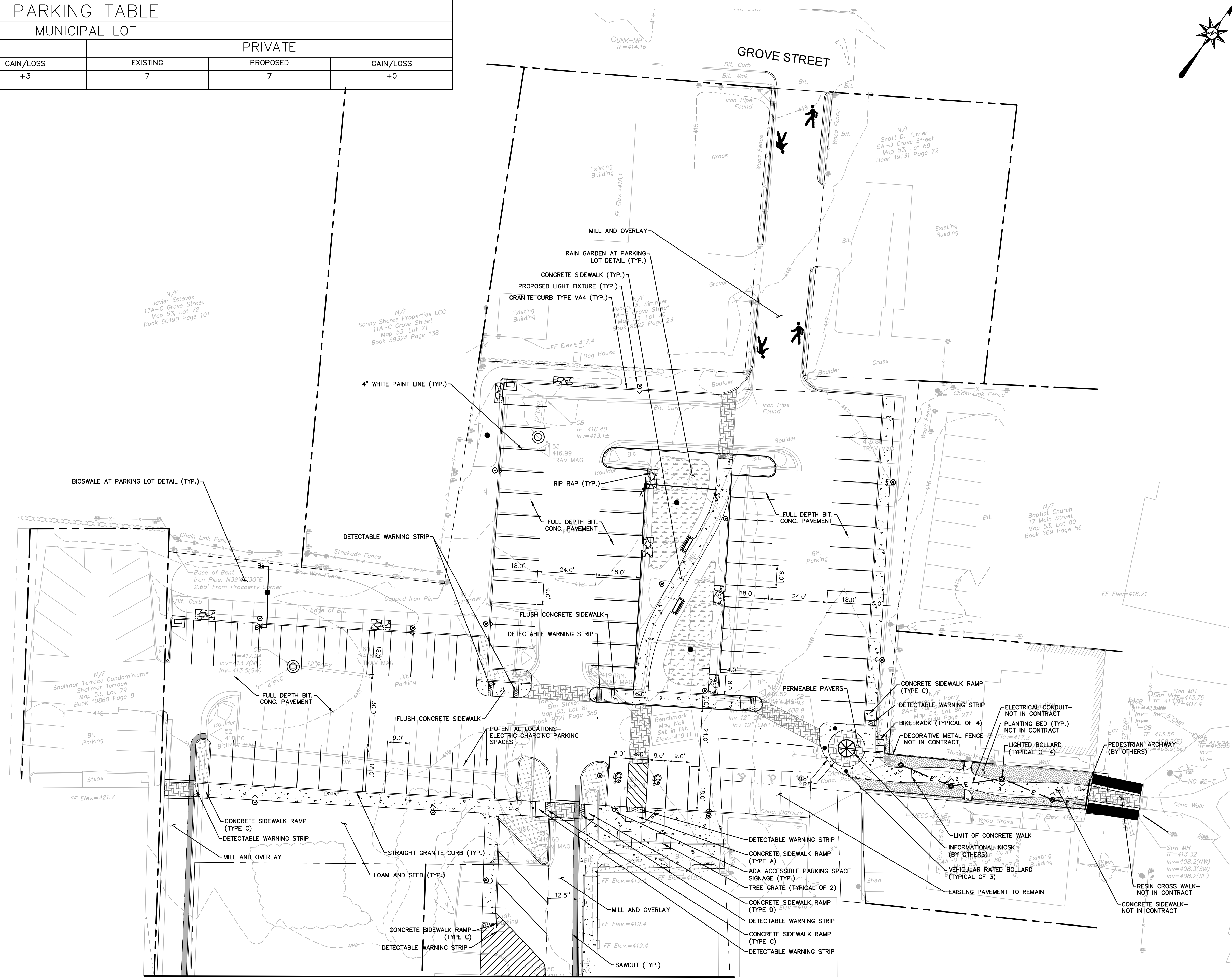
- NOTES:**
- DETECTABLE WARNING STRIPS ARE TO BE INSTALLED ON CONCRETE SIDEWALK RAMPS ONLY WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - A 4' MINIMUM ACCESSIBLE PATH SHALL BE PROVIDED DURING CONSTRUCTION IN ALL AREAS WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED.



20/21/2021, KAREED, I:\COMPANIES\COMPANY\PROJECTS\2021\4819\DWG\MAT20047801.DWG (MAT-02)

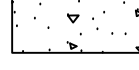

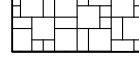

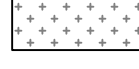









PARKING TABLE					
PUBLIC			PRIVATE		
EXISTING	PROPOSED	GAIN/LOSS	EXISTING	PROPOSED	GAIN/LOSS
77 TOTAL- 76 PUBLIC, 1 SPACE LOADING	79 PUBLIC, 1 SPACE LOADING	+3	7	7	+0



MATCHLINE - SEE SHEET NO. MAT-02

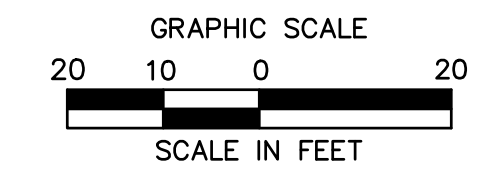
LEGEND:

-  CONCRETE SIDEWALK
-  RESIN CROSSWALK
-  PERMEABLE PAVERS
-  RAIN GARDEN PLANTING (SEE LANDSCAPE PLANS)
-  SHRUB & GROUNDCOVER PLANTING (SEE LANDSCAPE PLANS)
-  SEEDED BIO SWALE (SEE LANDSCAPE PLANS)
-  BENCH
-  BIKE RACK
-  INFORMATIONAL KIOSK (BY OTHERS)
-  LIMIT OF DISTURBANCE
-  ELECTRICAL CONDUIT (NOT IN CONTRACT)
-  DECORATIVE METAL FENCE (NOT IN CONTRACT)

NOTES:

1. DETECTABLE WARNING STRIPS ARE TO BE INSTALLED ON CONCRETE SIDEWALK RAMPS ONLY WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. A 4' MINIMUM ACCESSIBLE PATH SHALL BE PROVIDED DURING CONSTRUCTION IN ALL AREAS WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED.

NOT FOR CONSTRUCTION

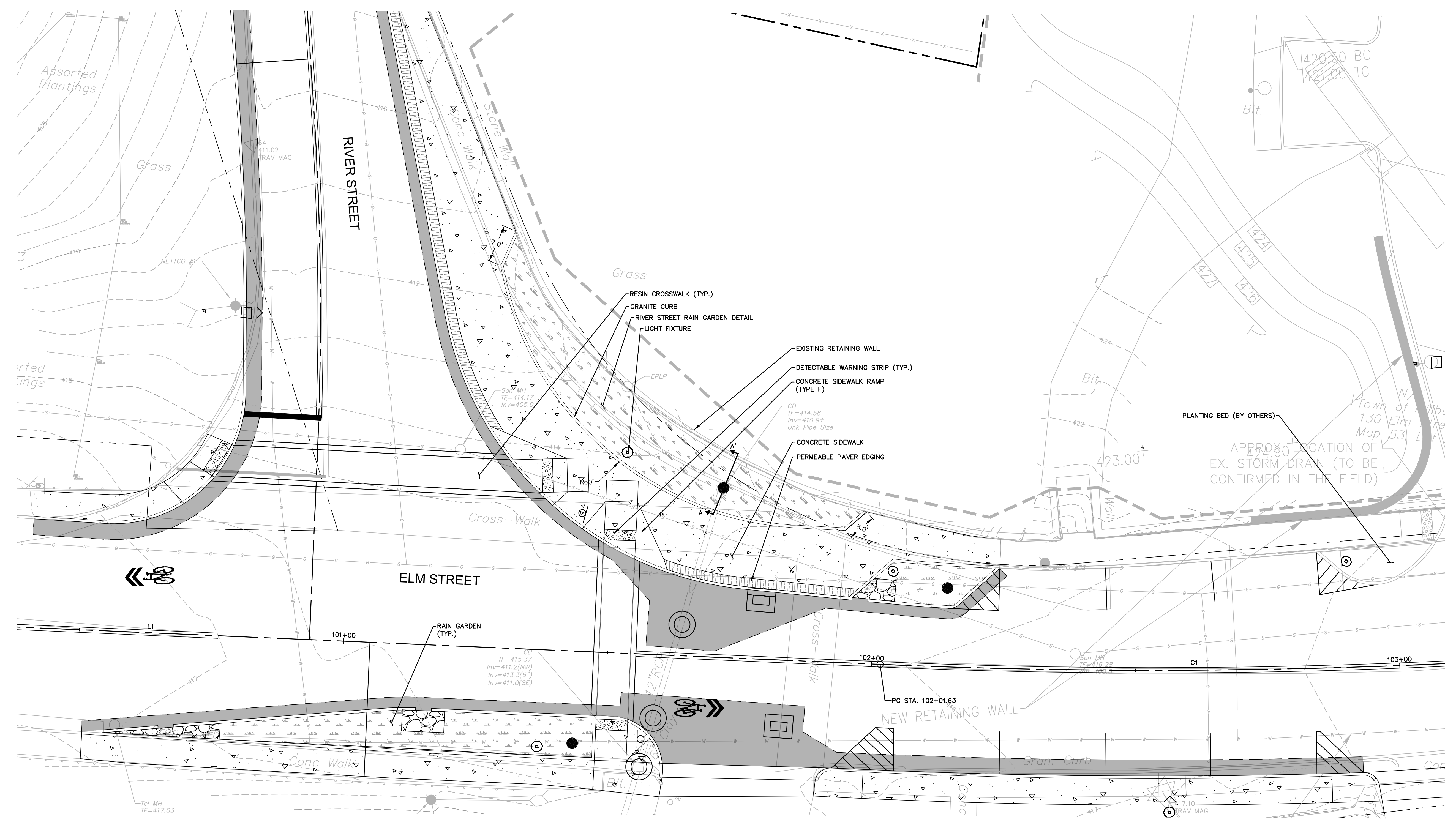
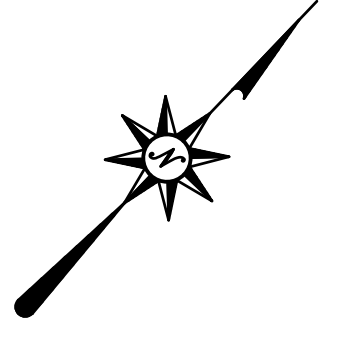


REVISONS	No.	Date	Desc.
Designed			M.M.
Drawn			B.C.T.
Reviewed			N.R.G.
Scale			1" = 20'
Project No.			2001478
Date			May, 2021
CAD File:			MAT20047801

Title
MATERIALS PLAN

Sheet No.


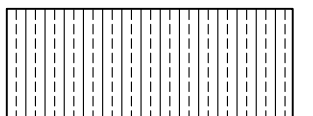
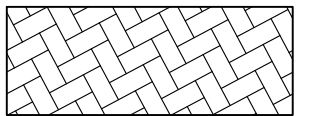
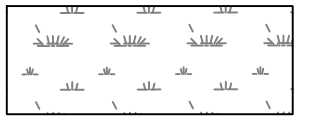
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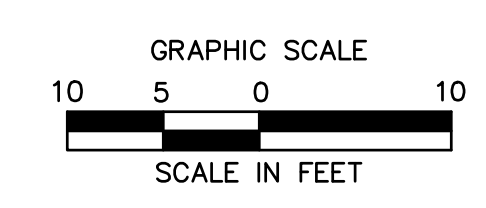
RIVER STREET INTERSECTION ENLARGEMENT

N.T.S.

LEGEND

-  CONCRETE SIDEWALK
-  PERMEABLE PAVER EDGING
-  RESIN CROSSWALK
-  RAIN GARDEN PLANTING
(SEE LANDSCAPE PLANS)

NOT FOR CONSTRUCTION



REVISIONS

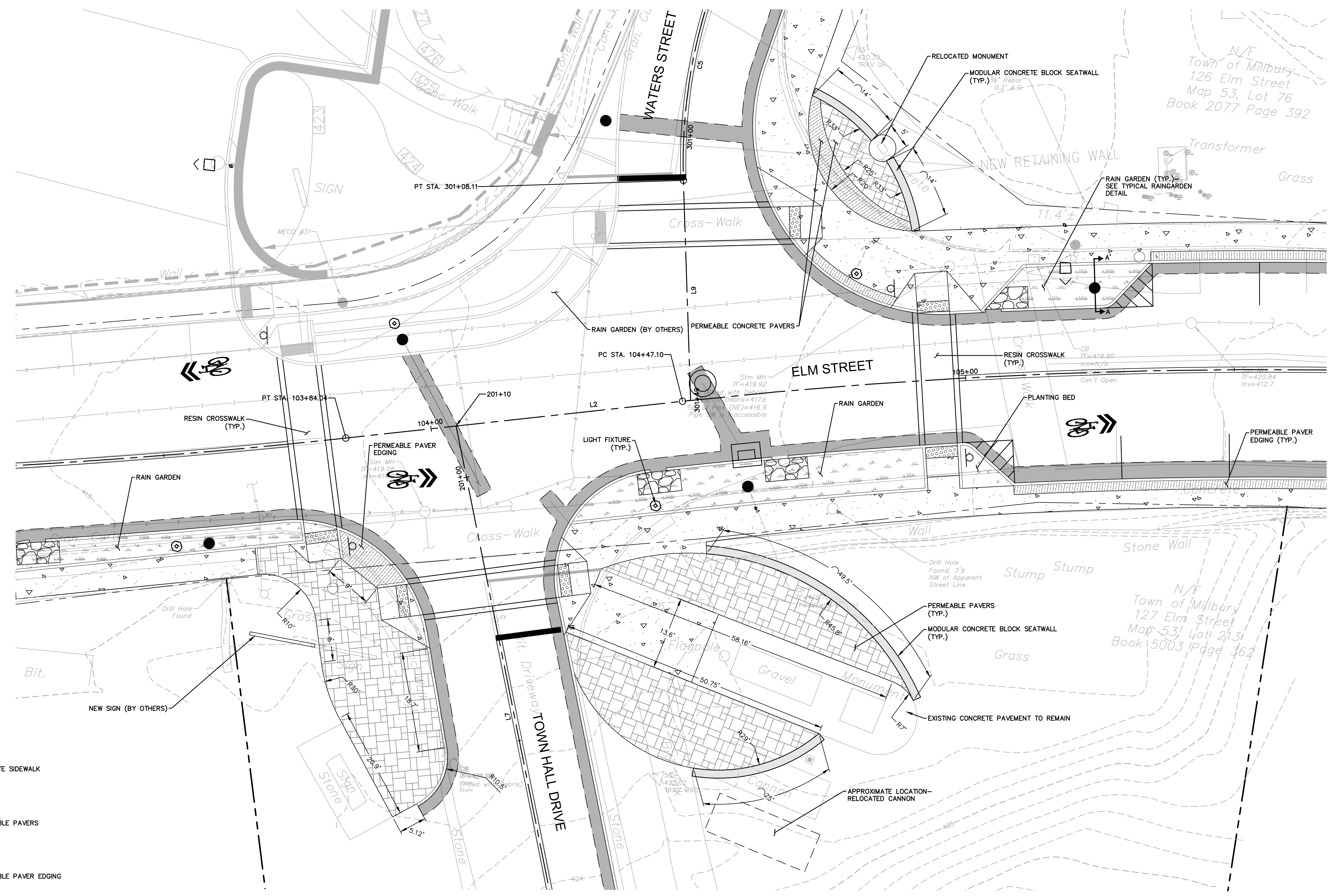
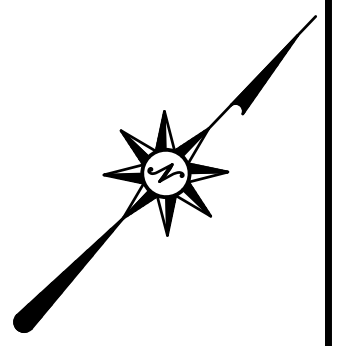
No.	Date	Desc.

Designed M.M.
Drawn K.A.
Reviewed N.R.G.
Scale 1" = 10'
Project No. 2001478
Date May, 2021
CAD File: MAT20047801

Title
MATERIALS ENLARGEMENT PLAN

Sheet No.

MAT-04

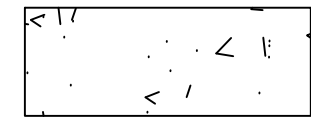
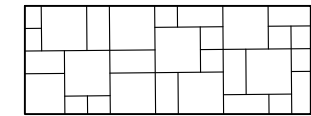
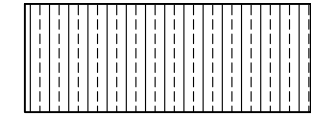
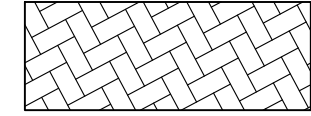
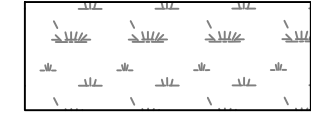
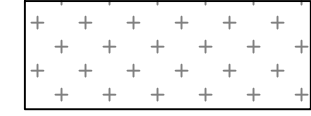

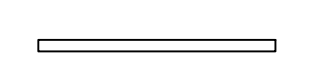


WATERS STREET AND TOWN HALL DRIVE INTERSECTION

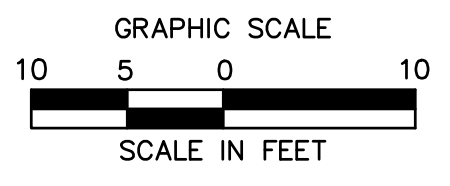
N.T.S.

LEGEND

N.T.S.

-  CONCRETE SIDEWALK
-  PERMEABLE PAVERS
-  PERMEABLE PAVER EDGING
-  RESIN CROSS WALK
-  RAIN GARDEN PLANTING
(SEE LANDSCAPE PLANS)
-  PLANTING BED
(SEE LANDSCAPE PLANS)
-  MODULAR CONCRETE BLOCK SEATWALL
-  NEW SIGN (BY OTHERS)

NOT FOR CONSTRUCTION



REVISIONS	
No.	Date

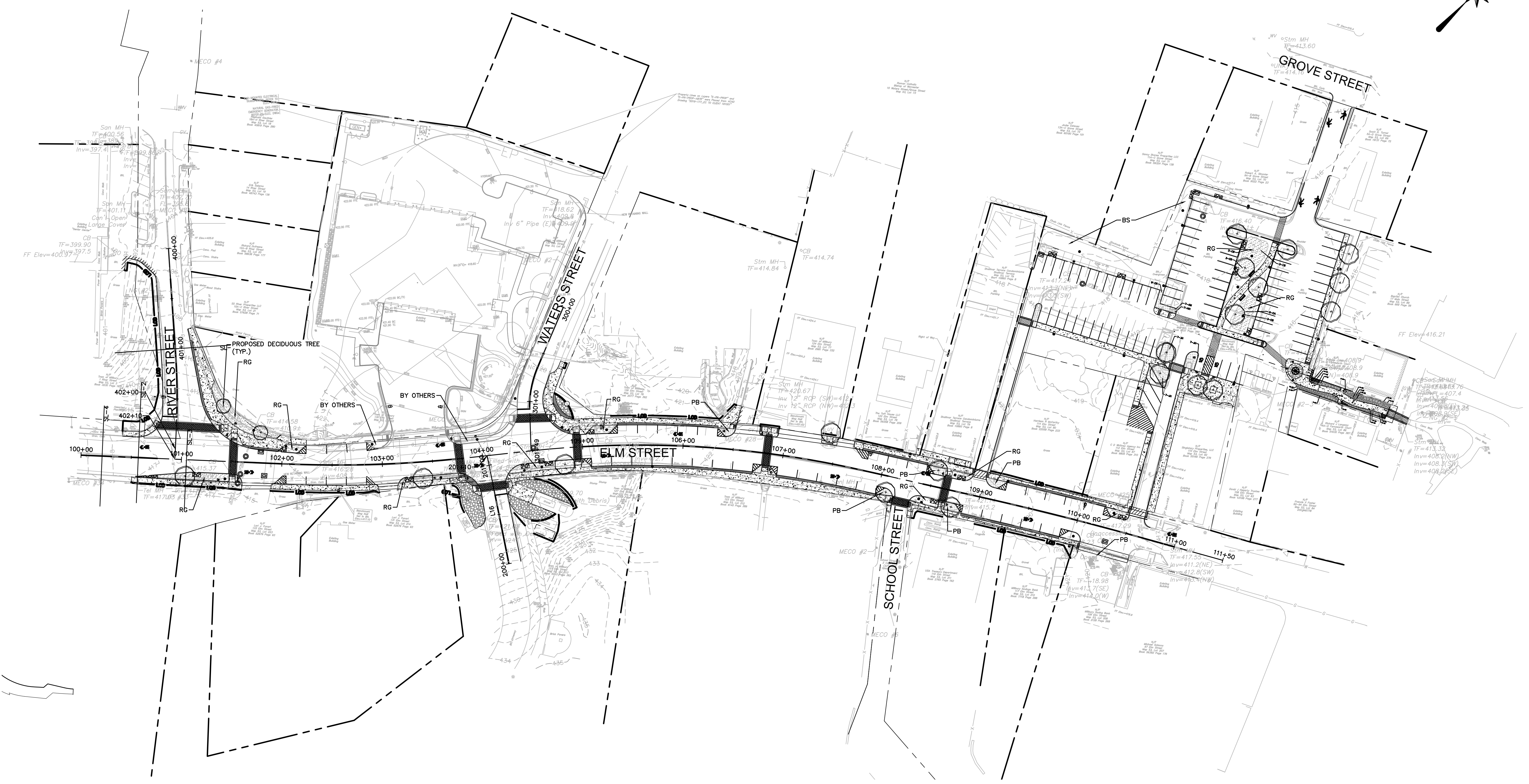
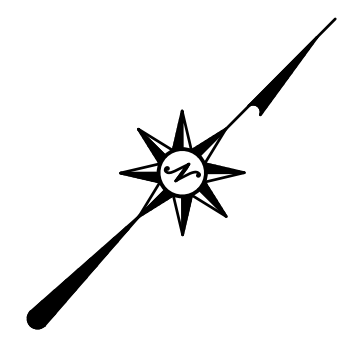
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Drawn	K.A.
Reviewed	N.R.G.
Scale	1" = 10'
Project No.	2001478
Date	May, 2021
CAD File:	MAT20047801
Title	MATERIALS ENLARGEMENT PLAN
Sheet No.	

MAT-05




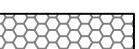
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MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

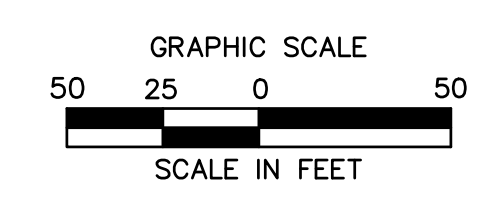


LEGEND:

-  DECIDUOUS TREE- 2.5"-3" CALIPER
-  PERENNIALS/ORNAMENTAL GRASSES (1 GALLON)
-  GROUND COVER (3 GALLON)
-  BIOSWALE- SEED MIX

ABBREVIATIONS:
BS: BIOSWALE
PB: PLANTING BED
RG: RAIN GARDEN

NOT FOR CONSTRUCTION



REVISIONS	
No.	Date

Designed	M.M.
Drawn	K.A.
Reviewed	XXX
Scale	1" = 50'
Project No.	2001478
Date	May, 2021
CAD File:	LL20047802
Title	
OVERALL LANDSCAPE PLAN	
Sheet No.	

LL-00

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MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

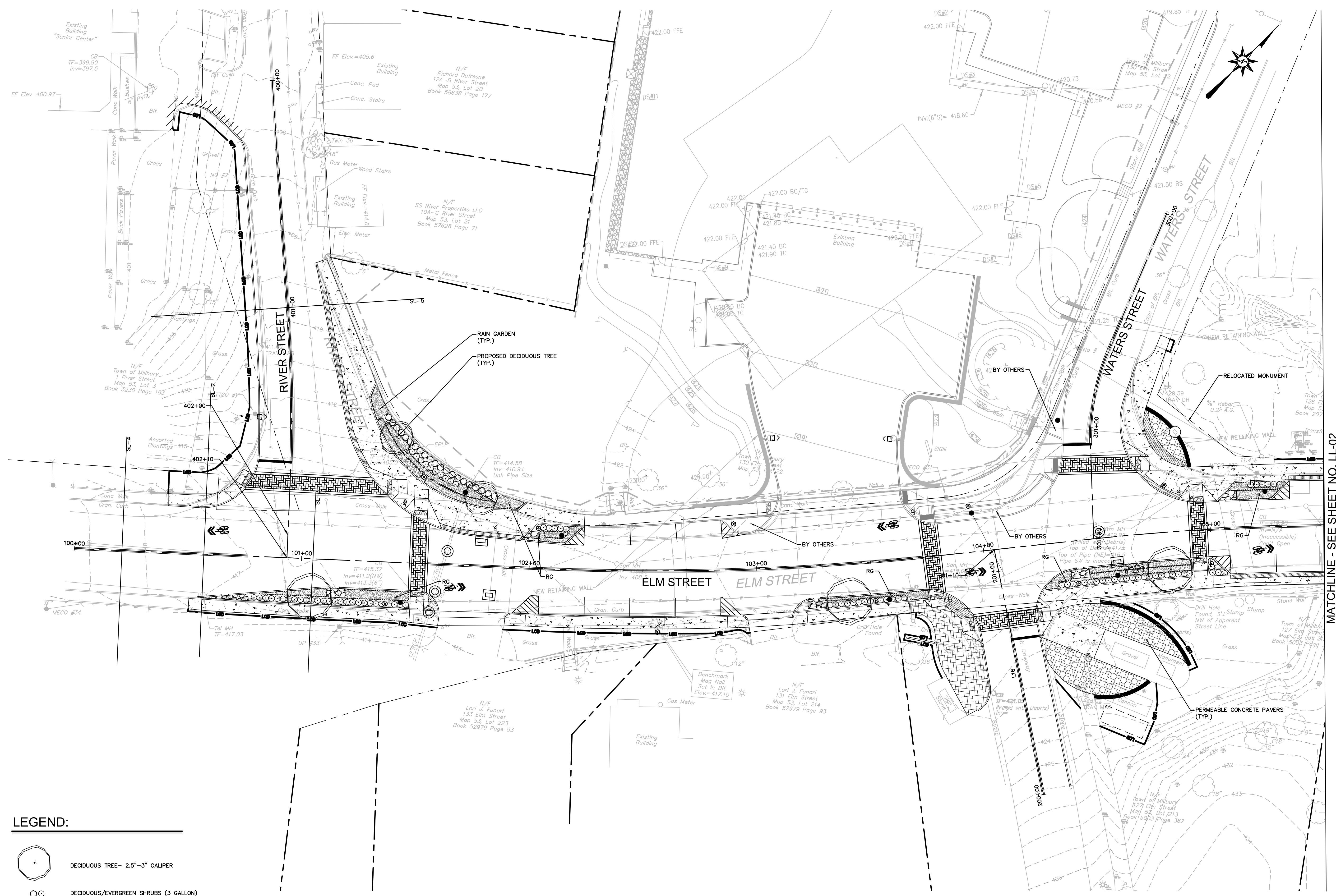
REVISIONS	Desc.
No.	Date

Designed M.M.
Drawn K.A.
Reviewed XXX
Scale 1" = 20'
Project No. 2001478
Date May, 2021
CAD File: LL20047802

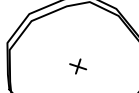



Title
LANDSCAPE PLAN

Sheet No.

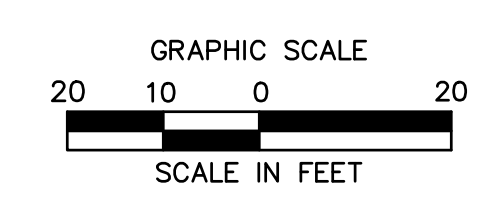
LL-01



MATCHLINE - SEE SHEET NO. LL-02

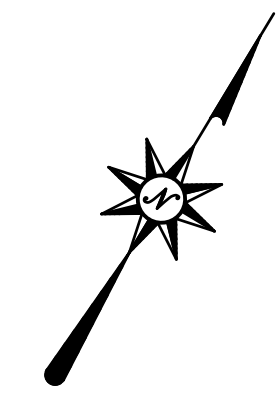
- LEGEND:**
-  DECIDUOUS TREE-- 2.5"-3" CALIPER
 -  DECIDUOUS/EVERGREEN SHRUBS (3 GALLON)
 -  PERENNIALS/ORNAMENTAL GRASSES (1 GALLON)
 -  GROUNDCOVER (3 GALLON)
- ABBREVIATIONS:**
- PB: PLANTING BED
 - RG: RAIN GARDEN

NOT FOR CONSTRUCTION

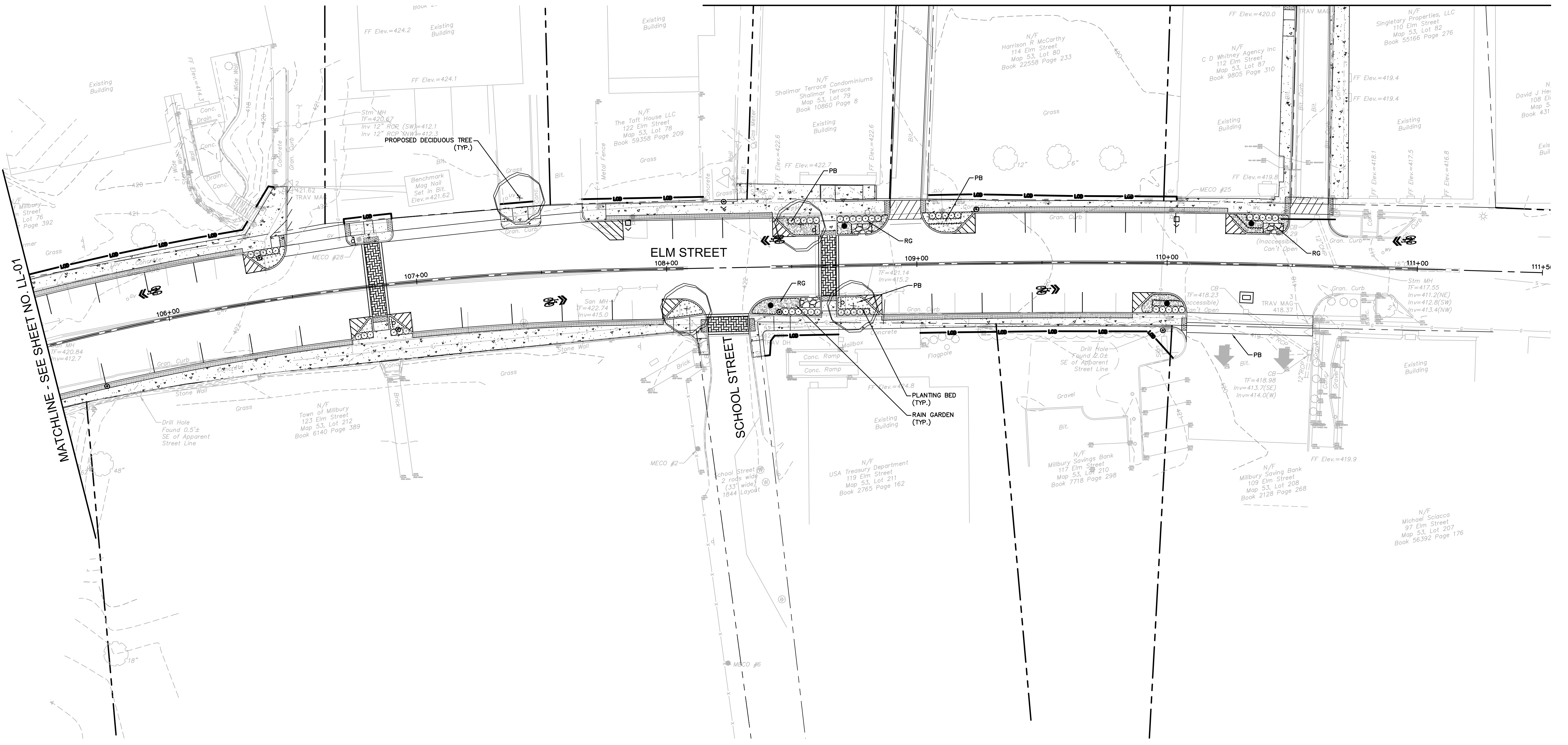


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MATCHLINE - SEE SHEET NO. LL-03

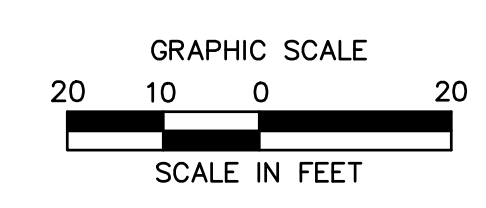


LEGEND:

- DECIDUOUS TREE - 2.5" - 3" CALIPER
- DECIDUOUS/EVERGREEN SHRUBS (3 GALLON)
- PERENNIALS/ORNAMENTAL GRASSES (1 GALLON)
- GROUNDCOVER (3 GALLON)

ABBREVIATIONS:
PB: PLANTING BED
RG: RAIN GARDEN

NOT FOR CONSTRUCTION



REVISIONS	
No.	Date

Designed	M.M.
Drawn	K.A.
Reviewed	XXX
Scale	1" = 20'
Project No.	2001478
Date	May, 2021
CAD File:	LL20047802
Title	
LANDSCAPE PLAN	
Sheet No.	

LL-02

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

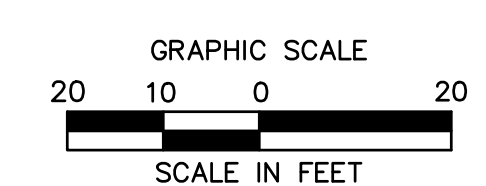
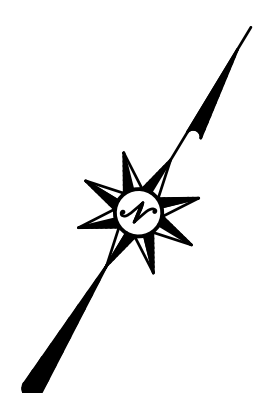
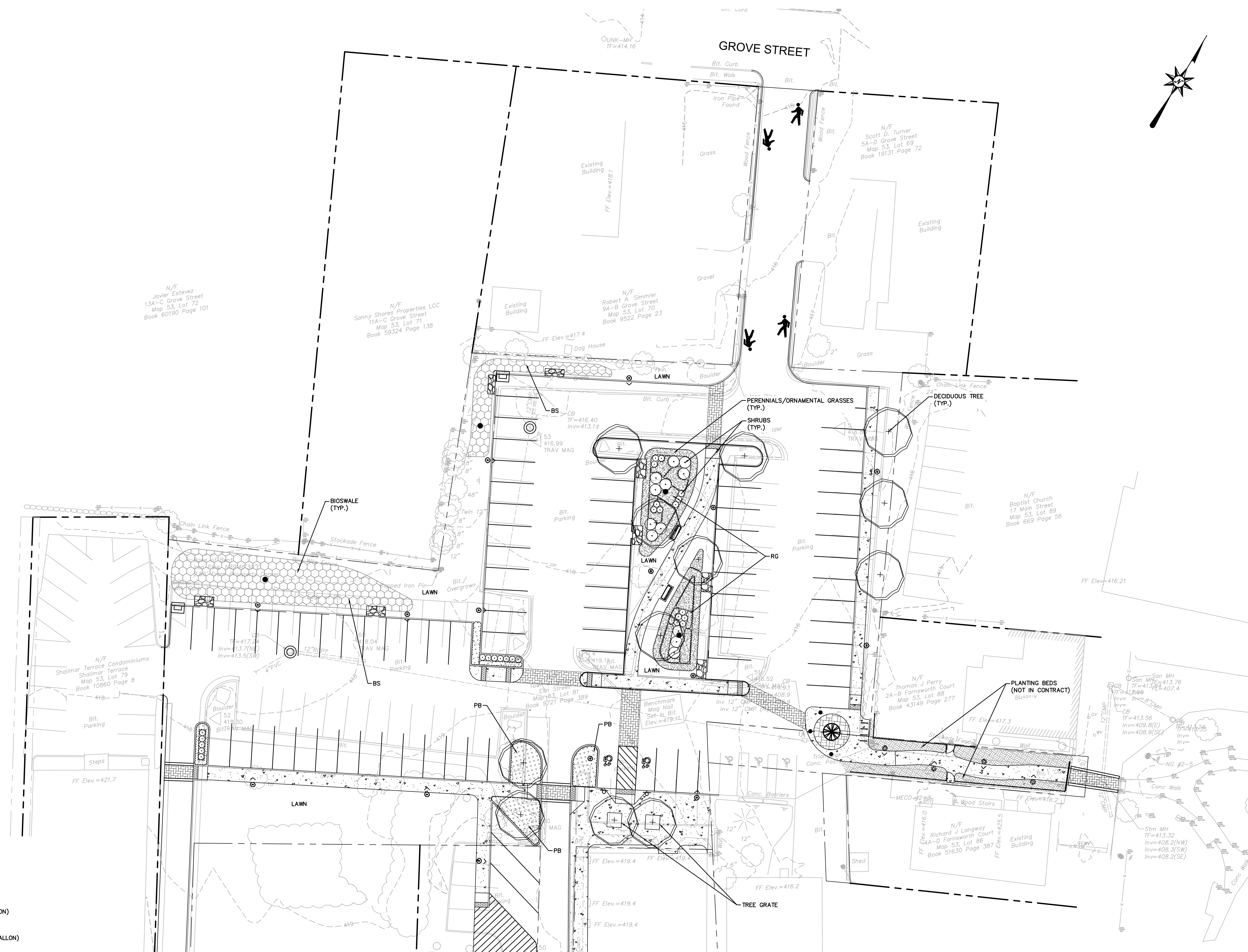
REV. NO.	DATE	DESC.

Designed	M.M.
Drawn	K.A.
Reviewed	XXX
Scale	1" = 20'
Project No.	2001478
Date	May, 2021
CAD File:	LL20047802

LANDSCAPE PLAN

Sheet No.

LL-03



LEGEND:

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-
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ABBREVIATIONS:
BS: BIOSWALE
PB: PLANTING BED
RG: RAIN GARDEN

NOT FOR CONSTRUCTION

MATCHLINE - SEE SHEET NO. LL-02

LANDSCAPE NOTES

1. THE LANDSCAPE PLAN AND DETAIL SHEET ARE FOR LANDSCAPING INFORMATION ONLY. REFER TO THE SITE PLAN, GRADING AND DRAINAGE PLAN, SITE UTILITIES PLAN, LIGHTING PLAN AND DEMOLITION PLAN FOR ALL OTHER INFORMATION.
2. COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
3. THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO UTILITY LOCATIONS AND SITE CONDITIONS. THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS FOR THE REVIEW, ADJUSTMENT, AND APPROVAL BY OWNER OR LANDSCAPE ARCHITECT PRIOR TO PLANTING.
4. THE CONTRACTOR SHALL GUARANTEE THAT ALL PLANTS SHALL BE HEALTHY AND FREE OF DISEASE FOR A PERIOD OF ONE YEAR OR JUNE 1ST OF THE YEAR FOLLOWING INSTALLATION, WHICHEVER IS LONGER, AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE BY OWNER OR LANDSCAPE ARCHITECT. CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. PLANT MATERIAL REPLACEMENTS SHALL BE GUARANTEED FOR ONE FULL YEAR FROM DATE OF REPLACEMENT. REPLACEMENT PLANTS SHALL BE THE SAME AS SPECIFIED FOR THE ORIGINAL PLANTING. REPLACEMENTS SHALL BE MADE AS MANY TIMES AS NECESSARY TO ENSURE HEALTHY PLANTS. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE. MAINTENANCE RESPONSIBILITIES INCLUDE CULTIVATING, SPRINKLING, WEEDING, WATERING, TIGHTENING GUYS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL THE END OF THE GUARANTEE PERIOD. DURING THE LANDSCAPE MAINTENANCE PERIOD (GUARANTEE) THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF ANY SITE CONSTRAINTS (PHYSICAL, ENVIRONMENT, ETC.) OR MAINTENANCE DEFICIENCIES THAT MAY AFFECT LANDSCAPE VEGETATION ESTABLISHMENT.
5. THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT SCHEDULE. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER SHALL APPLY. ALL PLANTS SHALL BE ACCLIMATED BY THE SUPPLY NURSERY TO THE LOCAL HARDINESS ZONE AND BE CERTIFIED THAT THE PLANTING MATERIAL HAS BEEN GROWN FOR A MINIMUM OF TWO YEARS AT THE SOURCE AND OBTAINED WITHIN 200 MILES OF PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER OR LANDSCAPE ARCHITECT.
6. PLANTS SHALL HAVE TAGS THAT IDENTIFY PLANT GENUS, SPECIES, CULTIVAR (IF APPLICABLE), PLANT COMMON NAME, NAME OF SOURCE NURSERY, AND SIZE OF PLANT FOR REVIEW OF OWNER OR LANDSCAPE ARCHITECT.
7. NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER OR LANDSCAPE ARCHITECT.
8. FINAL GRADES SHALL BLEND SMOOTHLY WITH EXISTING GRADES, AND TOP AND BOTTOM OF SLOPES SHALL BE ROUNDED.
9. ALL TREE AND SHRUB MASSINGS SHALL BE MULCHED TO A DEPTH OF 3". ANNUAL AND PERENNIAL BEDS SHALL BE MULCHED TO A DEPTH OF 2". MULCH SHALL BE UNCOLORED TRIPLE-SHREDDED HARDWOOD BARK MULCH, AGED AT LEAST 6 MONTHS.
10. IF TREE STAKING IS PROPOSED, TREE STAKING MUST BE COMPLETED THE SAME DAY AS THE TREE IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED PER DETAIL.
11. LANDSCAPE PLANTING AREAS MUST BE FREE DRAINING, PAVEMENT, COMPACTED SUBGRADE, DEAD OR DYING PLANT MATERIAL, BLASTED ROCK, STONES GREATER THAN 1" IN DIAMETER, AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH AND DEVELOPMENT SHALL BE REMOVED FROM AREAS TO BE LANDSCAPED AS REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS.
12. PLANTING SOIL:

DEPTH: PLANTING SOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4" OR AS NOTED IN THE LANDSCAPE DETAILS. PLANTING SOIL SHALL BE UTILIZED IN ALL PLANTING AREAS INCLUDING SEEDED AREAS.

TESTING: CONTRACTOR SHALL SUBMIT (2) SOIL SAMPLES PER SOIL STOCKPILE TO A CERTIFIED TESTING LABORATORY TO DETERMINE ACIDITY, ORGANIC CONTENT, MECHANICAL ANALYSIS, AVAILABLE NUTRIENTS (N,P,K,Co,Mg,S,F,Mn,Zn,Cu,B,Al,Pb) AND NECESSARY AMENDMENTS TO SOIL. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO THE OWNER OR LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. TEST RESULTS SHALL RECOMMEND AMENDMENTS THAT WILL ALTER THE SOIL CHARACTERISTICS SUCH THAT THE CHARACTERISTICS DESCRIBED BELOW ARE ACHIEVED AND THE SPECIFIED PLANTS (CONTRACTOR TO PROVIDE LIST TO TESTING LABORATORY) WILL ACHIEVE PROPER GROWTH THAT IS NEITHER DEFICIENT NOR EXCESSIVE. THE CONTRACTOR SHALL INCORPORATE THESE AMENDMENTS AT NO INCREASE IN CONTRACT PRICE.

CHARACTERISTICS: PLANTING SOIL MAY CONSIST OF EXISTING ON-SITE SOILS, AMENDED ON-SITE SOILS, OR IMPORTED SOILS MEETING THE FOLLOWING CRITERIA:

- A. NOT TO CONTAIN MATERIALS HARMFUL TO PLANT LIFE, TO BE CLEAN, FERTILE, FRIABLE, AND WELL DRAINING. ALL PLANTING SOIL SHALL BE FREE OF ANY SUBSOIL EARTH CLODS, SOOS, STONES OVER 1" IN ANY DIMENSION, STICKS, ROOTS, WEEDS, LITTER AND OTHER DELETERIOUS MATERIAL. PLANTING SOIL SHALL BE UNIFORM IN QUALITY AND TEXTURE.
- B. PLANTING SOIL SHALL HAVE THE FOLLOWING OPTIMUM RANGES UNLESS OTHERWISE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT.

ORGANIC CONTENT	3% - 6% FOR LAWN OR GRASS AREAS. 4% - 8% FOR TREE AND SHRUB PLANTERS.
(BY LOSS OF IGNITION AT 375 C METHOD OF TESTING)	85-18% FOR RETENTION OR RETENTION BASINS.

PH	6.0 - 7.3
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- C. NUTRIENT LEVELS SHALL BE ACHIEVED BY THE CONTRACTOR'S ADDITION OF AMENDMENTS TO THE PLANTING SOIL TO MEET THE OPTIMUM NUTRIENT LEVELS SPECIFIED IN THE TESTING LABORATORY REPORT FOR EACH OF PLANTS TO BE INSTALLED.
- D. SOIL SHALL BE COMPACTED TO A SURFACE PENETRATION RESISTANCE OF 75-125 LBS/SQ.IN.
- E. SOIL MAY BE TREATED FOR WEEDS WITH PRE-EMERGENT OR POST-EMERGENT HERBICIDE, AS NEEDED AND AS APPROPRIATE FOR THE APPLICATION SEASON OR LOCATION, OR ELIMINATE GROWTH OF UNWANTED PLANT MATERIAL. APPLY HERBICIDES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. HERBICIDE APPLICATOR MUST BE LICENSED IN THE STATE OF NEW HAMPSHIRE, AND PERFORM APPLICATIONS IN ACCORDANCE WITH LOCAL REQUIREMENTS, PERMITTING STIPULATIONS, AND ANY OTHER RESTRICTIONS INCLUDING AND IN EXCESS OF STATE AND FEDERAL REGULATIONS.
- F. PROPOSED TOPSOIL SHALL MEET THE USDA SOILS TEXTURAL PERCENTAGES OF SAND, SILT, AND CLAY FOR FOLLOWING CLASSIFICATIONS:
 - LOAM
 - SANDY LOAM WHERE SAND DOES NOT EXCEED 70% AND CLAY IS NOT LESS THAN 5%.
 - SANDY CLAY LOAM WHERE SAND DOES NOT EXCEED 70% AND CLAY IS LESS THAN 28%.
- G. BIORETENTION SOILS: SOIL TO BE INSTALLED IN RETENTION BASINS, PONDS, OR OTHER STORMWATER MANAGEMENT ENVIRONS SHALL MEET THE ABOVE DESCRIBED CHARACTERISTICS AND AS FOLLOWS:
 - SOIL SHALL NOT CONTAIN MORE THAN 20% CLAY AND LESS THAN 40% SILT.
 - SOIL SHALL HAVE AN INFILTRATION RATE BETWEEN 1/2" AND 3" PER HOUR.
- H. MODIFICATION TO THE PLANTING SOIL CHARACTERISTICS DESCRIBED ABOVE MAY BE SUBMITTED FOR APPROVAL BY THE LANDSCAPE ARCHITECT. CONTRACTOR MUST DEMONSTRATE PROPOSED CHARACTERISTICS ARE EQUAL TO OR SUPERIOR TO THE SPECIFIED CHARACTERISTICS WITH RESPECT TO SUPPORTING PLANT GROWTH, AND STORMWATER MANAGEMENT.

12. PLANTING AMENDMENTS: APPLY FERTILIZER AND OTHER AMENDMENTS AS RECOMMENDED FOR EACH PLANTING AREA BY SOIL ANALYSIS. APPLY AMENDMENTS IN A MANNER CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS. ANY ORGANIC AMENDMENTS SHALL HAVE A pH BETWEEN 4.5 AND 5.5 UNLESS OTHERWISE RECOMMENDED.

13. PLANT REQUIREMENTS: ALL PLANTS SHALL CONFORM IN SIZE AND GRADE TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 (LATEST EDITION). ALL PLANTS SHALL MEET THE ADDITIONAL REQUIREMENTS SET FORTH BELOW AND IN WRITTEN SPECIFICATIONS AS APPLICABLE. ALL TREES AND SHRUBS SHALL HAVE BEEN GROWN AT A COMMERCIAL NURSERY WITHIN 200 MILES OF THE PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER OR LANDSCAPE ARCHITECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. THEY SHALL BE HEALTHY, SYMMETRICAL, EVENLY AND DENSELY BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF BARK INJURY, DISEASE, AND INSECT PESTS. ALL TREES SHALL HAVE A STRAIGHT TRUNK WITH A SINGLE MAIN LEADER UNLESS OTHERWISE CHARACTERISTIC OF THE SPECIES OR VARIETY. THE OWNER OR LANDSCAPE ARCHITECT WILL ALLOW SUBSTITUTIONS ONLY UPON WRITTEN APPROVAL. SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED MAY BE USED IF APPROVED, BUT THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL OVERSTORY TREES PLANTED ALONG PARKING AREAS, SIDEWALKS AND PEDESTRIAN ACCESSSES SHALL NOT BRANCH BELOW 7' FEET IF THE TREE CALIPER IS 3" INCHES OR GREATER. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR LANDSCAPE ARCHITECT AT THE NURSERY SOURCE. THE CONTRACTOR SHALL COORDINATE SOURCE VISITS WITH THE LANDSCAPE ARCHITECT AND SHALL ACCOMPANY THE OWNER AND/OR LANDSCAPE ARCHITECT FOR ALL INSPECTIONS. CERTIFICATES OF COMPLIANCE WITH SPECIFICATIONS ARE REQUIRED FOR ALL PLANTS.

14. INSPECTION AND REVIEW: ALL PLANT MATERIAL SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR LANDSCAPE ARCHITECT AT THE NURSERY SOURCE OR PLACE OF GROWTH. THE CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE ARCHITECT ON A SCHEDULE FOR SOURCE VISITS AND ACCOMPANY THE OWNER OR LANDSCAPE ARCHITECT FOR ALL SOURCE INSPECTIONS. CERTIFICATES OF COMPLIANCE ARE REQUIRED FOR ALL PLANT MATERIALS. PHOTOGRAPHIC REVIEW OF PLANT MATERIAL IS ACCEPTABLE IF APPROVED BY LANDSCAPE ARCHITECT. PHOTOGRAPHS MUST BE PROVIDED IN QUANTITY AND VARIETY TO ALLOW LANDSCAPE ARCHITECT SUFFICIENT INFORMATION TO MAKE A REASONABLE DETERMINATION AS TO THE PLANTS' QUALITY. OWNER AND LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT PLANT MATERIAL DELIVERED TO THE SITE BUT PREVIOUSLY ACCEPTED IF DAMAGED OR NOT PROPERLY MAINTAINED DURING THE DELIVERY PROCESS.

15. PLANTING SEASONS (UNLESS OTHERWISE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT)

	SPRING	FALL
EVERGREEN TREES AND SHRUBS	APRIL 1 TO JUNE 15	SEPTEMBER 1 TO OCTOBER 15
DECIDUOUS TREES AND SHRUBS	APRIL 1 TO JUNE 15	SEPTEMBER 15 TO NOVEMBER 15
GROUNDCOVERS	APRIL 1 TO JUNE 15	SEPTEMBER 1 TO OCTOBER 15
PERENNIALS	MAY 15 TO JUNE 15	SEPTEMBER 1 TO OCTOBER 15
SEED MIXES	PER MANUFACTURERS RECOMMENDATIONS OR AS LISTED IN SEED MIX NOTES	

16. SEEDING MIXTURES: REFER TO SEED MIX NOTES.

17. ALL SLOPES STEEPER THAN 3:1 RECEIVING A SEED MIX SHALL BE COVERED WITH AN EROSION CONTROL BLANKET OF STRAW FIBER AND BIODEGRADABLE OR PHOTODEGRADABLE NETTING.

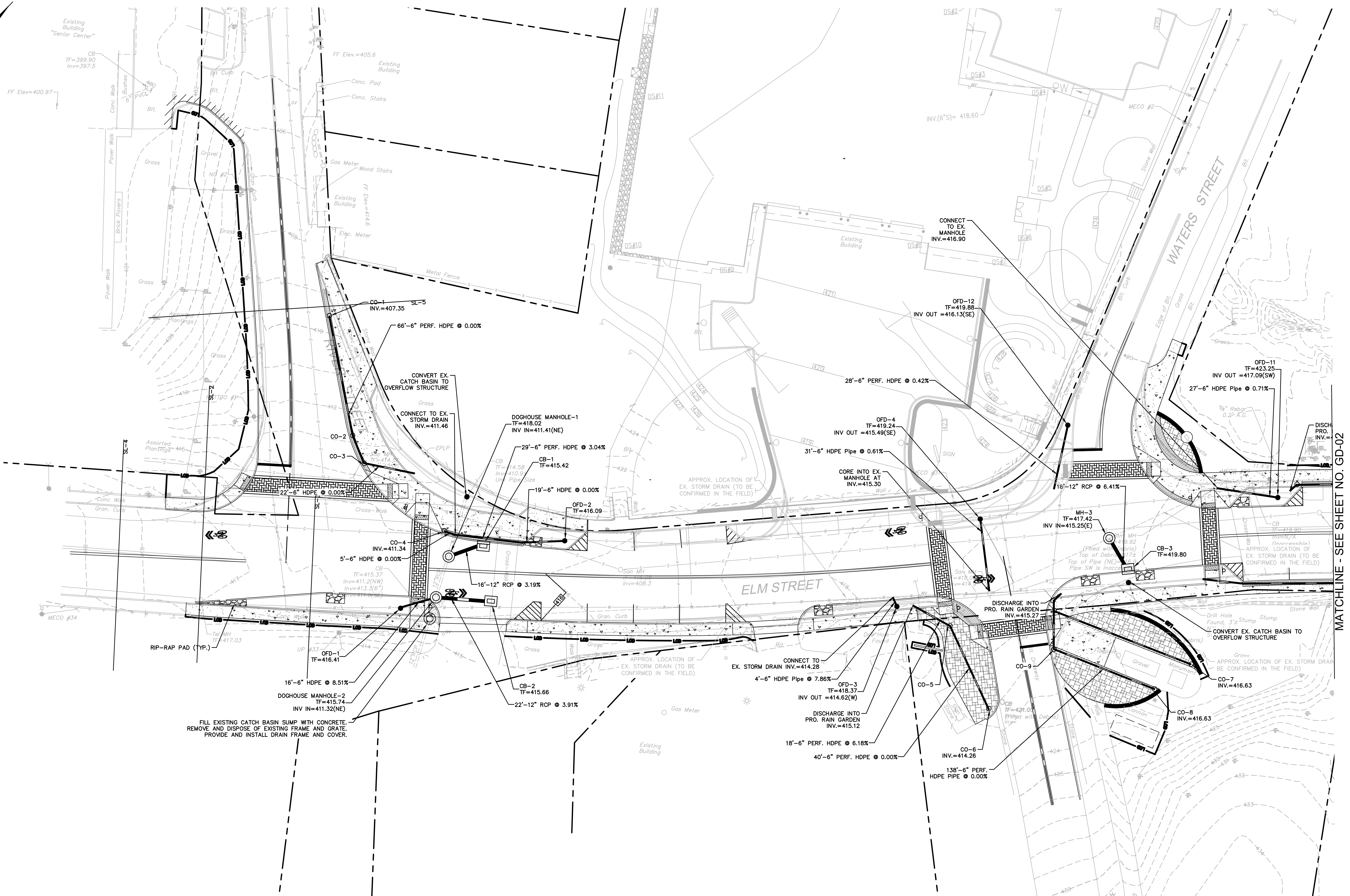
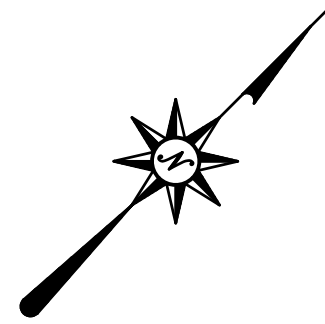
18. UNLESS OTHERWISE NOTED IN DRAWING SET, NEW TREELINES SHALL EQUAL CLEARING AND GRUBBING LIMIT FOR CONSTRUCTION.

19. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL BE SEEDED WITH THE LAWN SEED MIX.

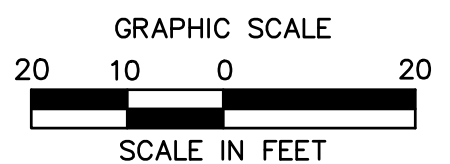
NOT FOR CONSTRUCTION

SEED MIX NOTES

- A. LAWN SEEDING MIX:
 - 15 % PERENNIAL RYEGRASS (BLEND OF 3 IMPROVED HYBRIDS)
 - 25 % FINE LEAF OR CREEPING FESCUE (BLEND OF 3 IMPROVED HYBRIDS)
 - 60 % KENTUCKY BLUEGRASS (BLEND OF 3 IMPROVED HYBRIDS)
 SEEDING RATE: 5 LBS/1,000 S.F.
 SEEDING DATES: AUGUST 15 - OCTOBER 1 AND APRIL 15 - JUNE 30 UNLESS OTHERWISE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT.
- B. BIOSWALE SEEDING MIX:
 - MANUFACTURER: ERNST CONSERVATION SEEDS, (800) 873-3321, SALES@ERNSTSEED.COM
 - PRODUCT: RAIN GARDEN GRASS MIX
 - APPLICATION RATE: 15LB/ACRE



MATCHLINE - SEE SHEET NO. GD-02



NOT FOR CONSTRUCTION



220 Norwood Park South
Norwood, MA 02062
(781) 619-9500

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	
No.	Date

Designed	L.A.E.
Drawn	L.A.E.
Reviewed	XXX
Scale	1" = 20'
Project No.	2001478
Date	May, 2021
CAD File:	GD200147801

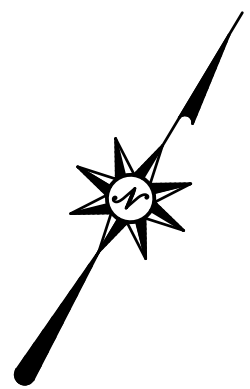
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GRADING AND DRAINAGE PLAN

Sheet No.

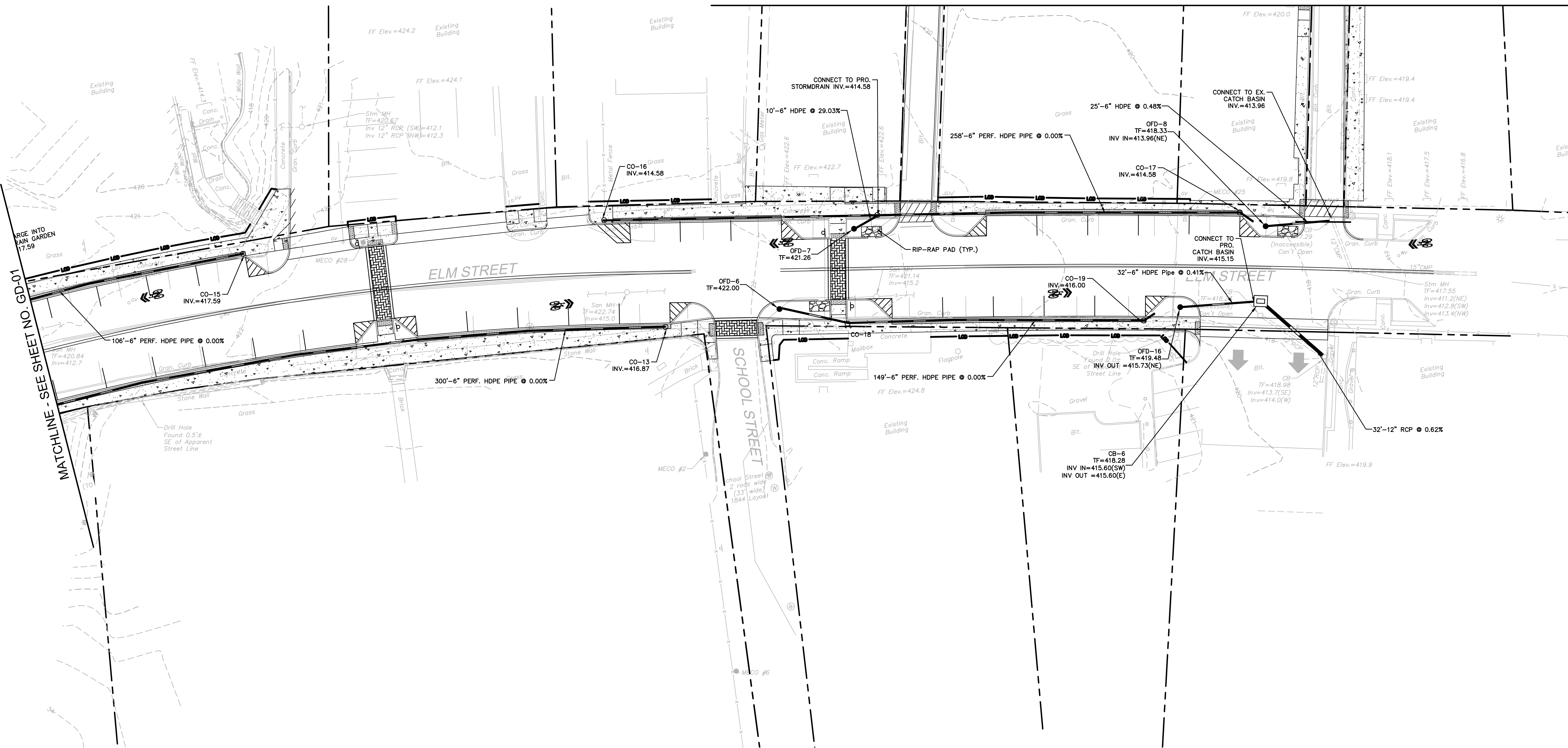
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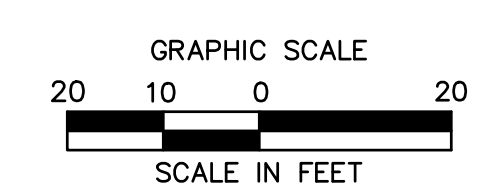


MATCHLINE - SEE SHEET NO. GD-03



MATCHLINE - SEE SHEET NO. GD-01

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220 Norwood Park South
Norwood, MA 02062
(781) 619-9500

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	No.	Date	Desc.

Designed	L.A.E.
Drawn	L.A.E.
Reviewed	XXX
Scale	1" = 20'
Project No.	2001478
Date	May, 2021
CAD File:	GD200147801

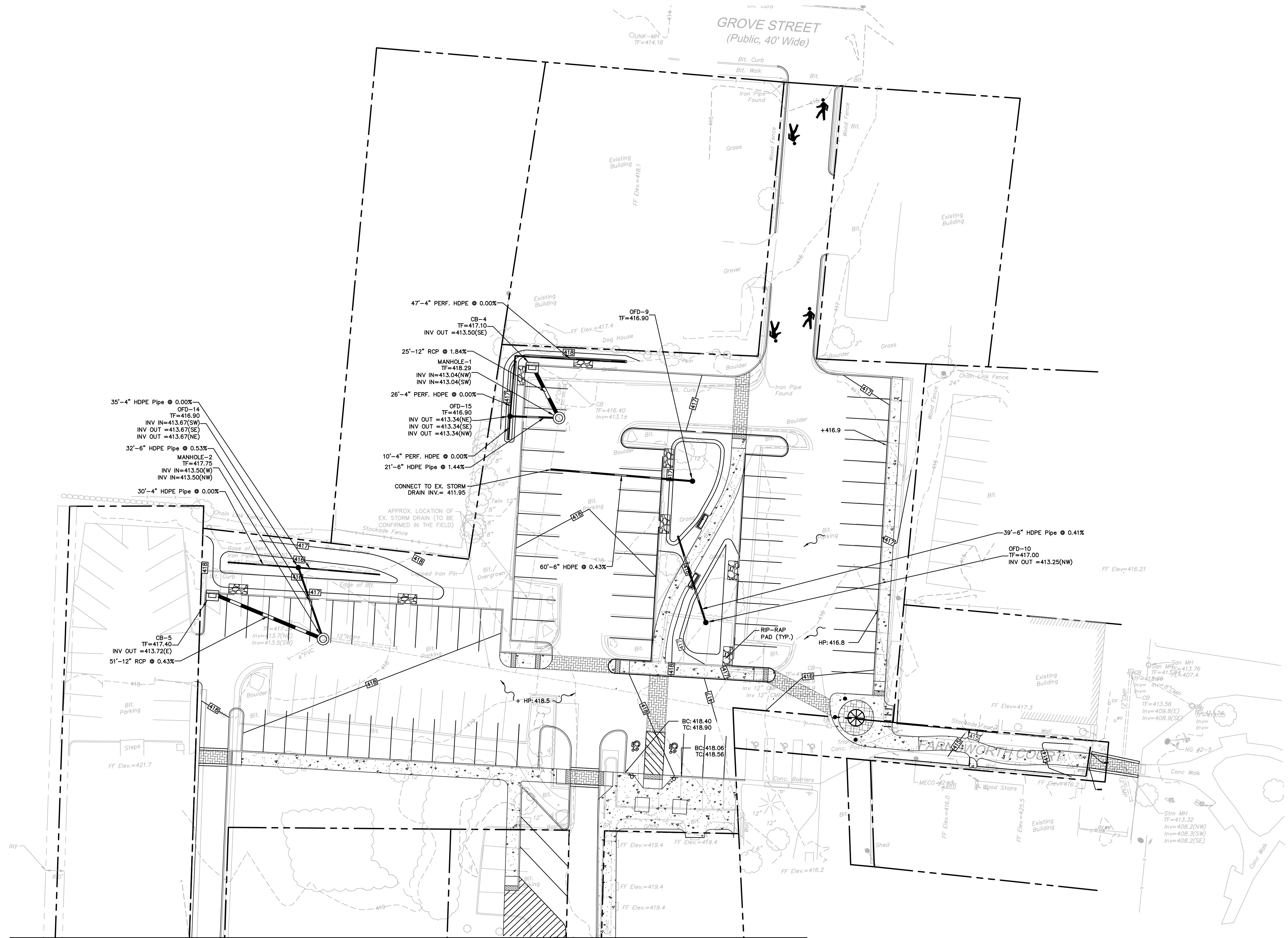
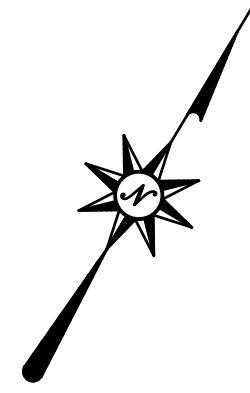
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GRADING AND DRAINAGE PLAN

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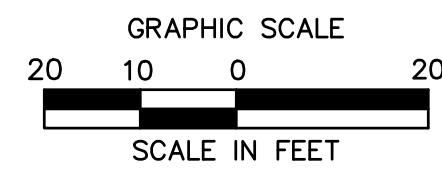
GD-02

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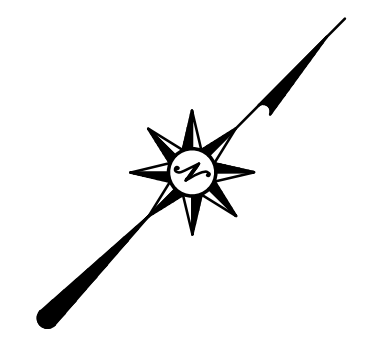
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No.	Date

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Drawn L.A.E.
Reviewed XXX
Scale 1" = 20'
Project No. 2001478
Date May, 2021
CAD File: GD200147801

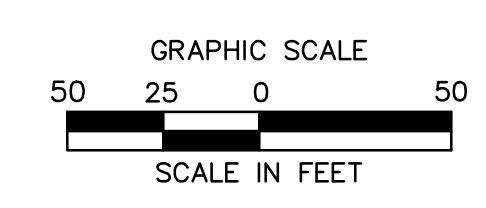
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MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA



Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage	Distribution
⊙	T5	18	Holophane	GVD3 P30 30K XXXX GL5 RB	GranVille Gen3, P30 Performance Package, 3000K CCT, 70CRI, Type 5 distribution with Ribs and Bands	1	GVD3_P30_30K_XXXX_GL5_RB.ies	7616	1	0.9	61	TYPE VS, BUG RATING: B3 - U4 G3
⊙	T3	3	Holophane	GVD3 P30 30K XXXX GL3 RB	GranVille Gen3, P30 Performance Package, 3000K CCT, 70CRI, Type 3 distribution with Ribs and Bands	1	GVD3_P30_30K_XXXX_GL3_RB.ies	7517	1	0.9	61	TYPE IV, MEDIUM, BUG RATING: B2 U4 - G5
⊙	T3HS	10	Holophane	GVD3 P30 30K XXXX GL3 RB GVDHSS18	GranVille Gen3, P30 Performance Package, 3000K CCT, 70CRI, Type 3 distribution with Ribs and Bands and with 180deg House Side Shield	1	GVD3_P30_30K_XXXX_GL3_RB_GVDHSS18.ies	5430	1	0.9	61	TYPE IV, MEDIUM, BUG RATING: B1 U4 - G5
⊙	B	4	Lithonia Lighting	DSXB LED 12C 350 30K	D-SERIES BOLLARD WITH 12 3000K LEDS OPERATED AT 350mA AND ASYMMETRIC DISTRIBUTION	1	DSXB_LED_12C_350_30K_ASY.ies	1194	1	0.9	16	TYPE IV, SHORT, BUG RATING: B1 U0 - G1
⊙	SL-EX	4	American Electric Lighting	ASY ATB2 40BLEDE10 XXXX R4 3K	ATB2 SERIES LED 1000MA TYPE 4 3000K CCT	1	ATB2_40BLEDE10_XXXX_R4_3K.ies	15626	1	0.3	133	TYPE IV, SHORT, BUG RATING: B3 U0 - G3
⊙	SL-NEW	2	American Electric Lighting	ATB2 40BLEDE10 XXXX R4 3K	ATB2 SERIES LED 1000MA TYPE 4 3000K CCT	1	ATB2_40BLEDE10_XXXX_R4_3K.ies	15626	1	0.7	133	TYPE IV, SHORT, BUG RATING: B3 U0 - G3



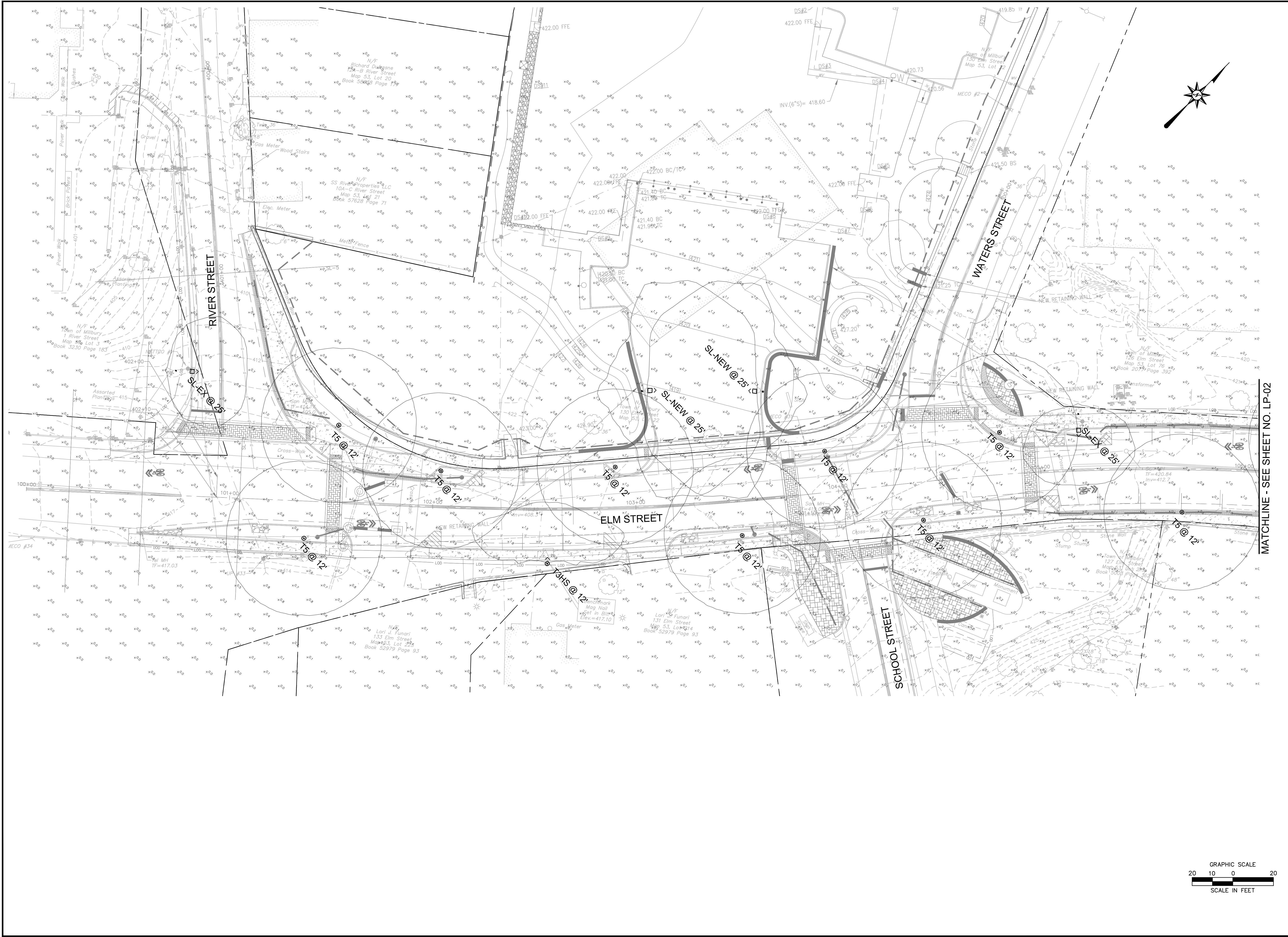
REVISIONS
No. Date Desc.

Designed M.M.
Drawn L.M.W.
Reviewed S.D.F.
Scale 1" = 50'
Project No. 2001478
Date May, 2021
CAD File: LP200147801

Title
OVERALL LIGHTING PLAN

Sheet No.

LP-00



MATCHLINE - SEE SHEET NO. LP-02

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

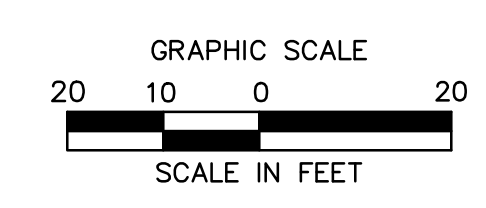
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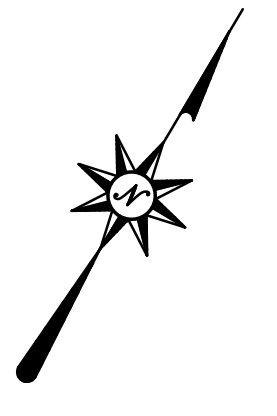
Designed M.M.
Drawn L.M.W.
Reviewed S.D.F.
Scale 1" = 20'
Project No. 2001478
Date May, 2021
CAD File: LP200147801

Title
LIGHTING PLAN

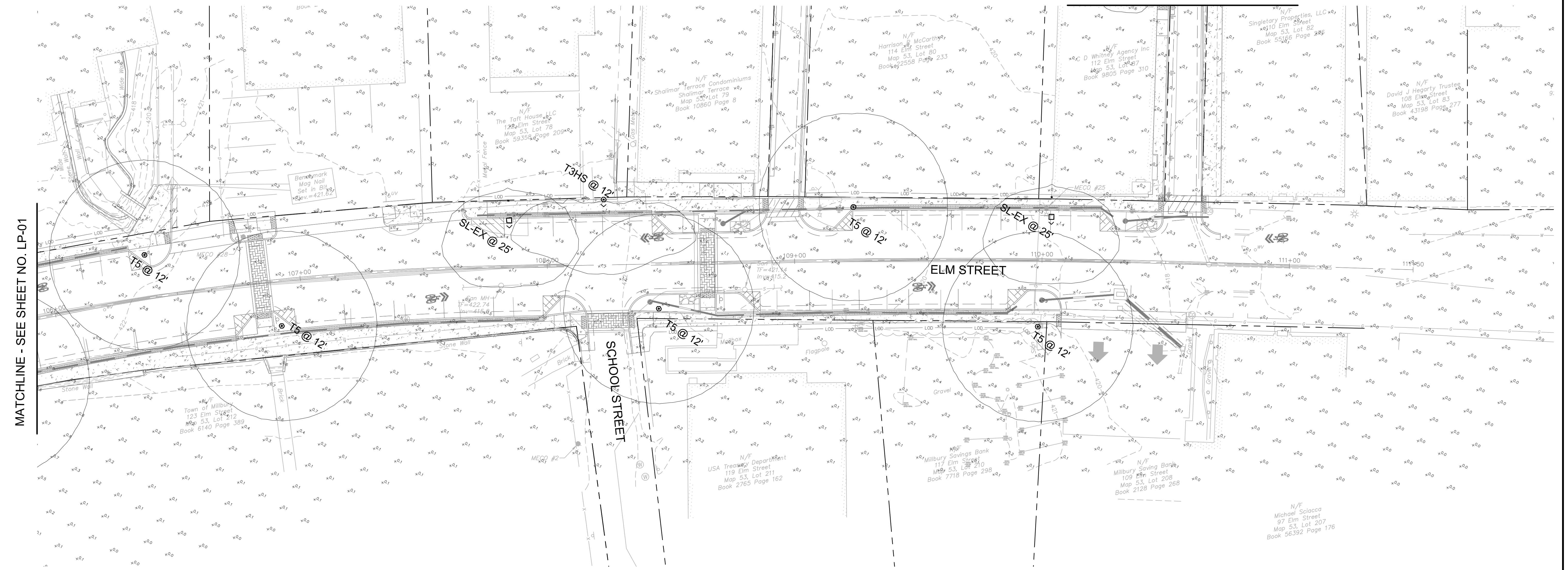
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LP-01





MATCHLINE - SEE SHEET NO. LP-03



MATCHLINE - SEE SHEET NO. LP-01

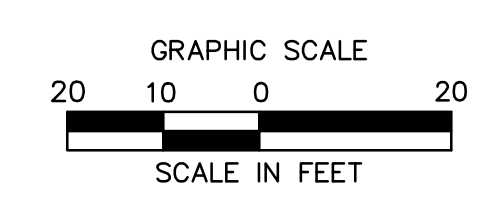
MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISONS	Desc.
No.	Date

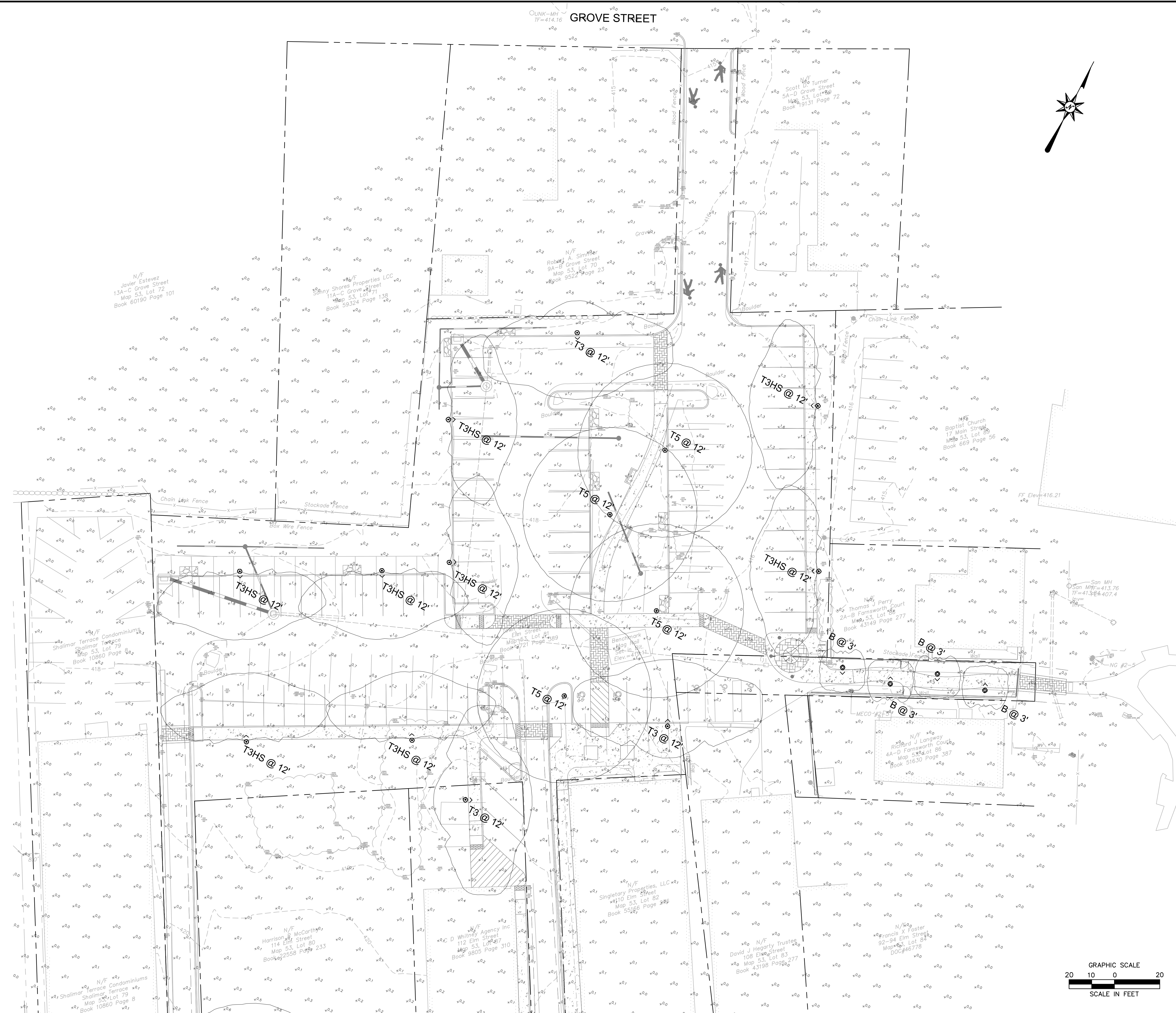
Designed M.M.
Drawn L.M.W.
Reviewed S.D.F.
Scale 1" = 20'
Project No. 2001478
Date May, 2021

CAD File: LP200147801
Title
LIGHTING PLAN

Sheet No.



LP-02



MATCHLINE - SEE SHEET NO. LP-02

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	No.	Date	Desc.

Designed M.M.
Drawn L.M.W.
Reviewed S.D.F.
Scale 1" = 20'
Project No. 2001478
Date May, 2021
CAD File: LP200147801

Title
LIGHTING PLAN

Sheet No.

LP-03