

CONSTRUCTION DOCUMENT PLANS

FOR

IMPROVEMENTS TO MILLBURY DOWNTOWN PHASE 2

ELM STREET FROM RIVER STREET TO MUNICIPAL LOT

TOWN OF Millbury, MASSACHUSETTS

PREPARED FOR:

TOWN OF MILLBURY MASSACHUSETTS

Elm Street

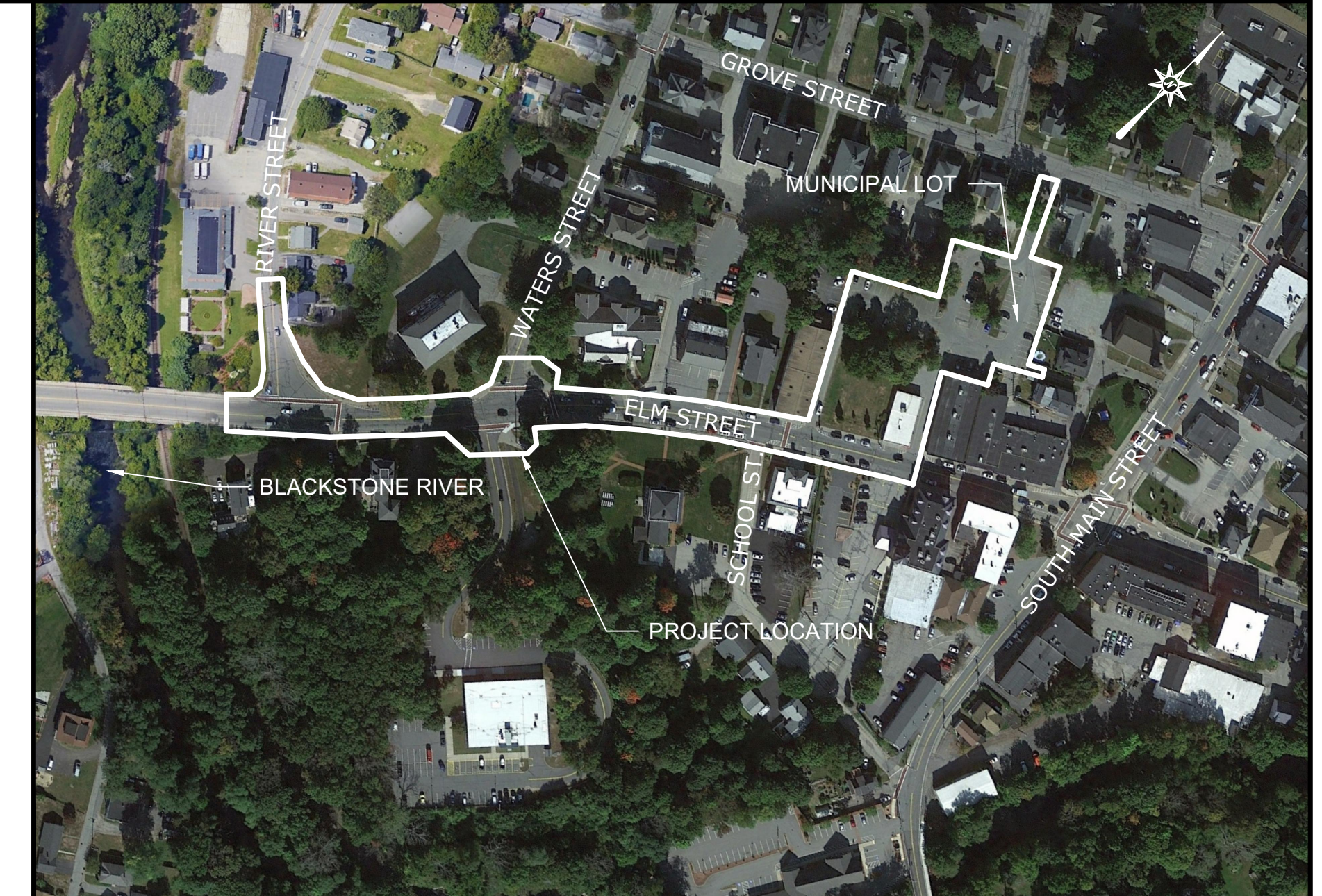
Millbury, Massachusetts 01572

PREPARED BY:



ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING

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



VICINITY MAP

SCALE: 1"=200'

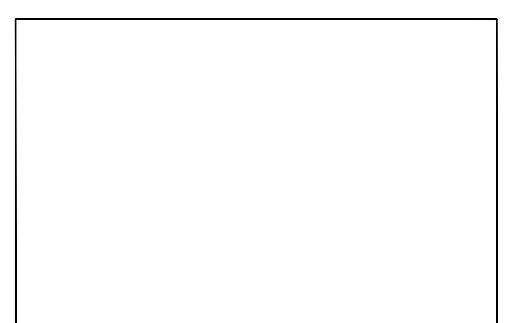
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GD-01 TO GD-03	LANDSCAPE PLAN
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	LIGHTING PLANS

NOT FOR CONSTRUCTION

ENGINEER

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



DATE _____

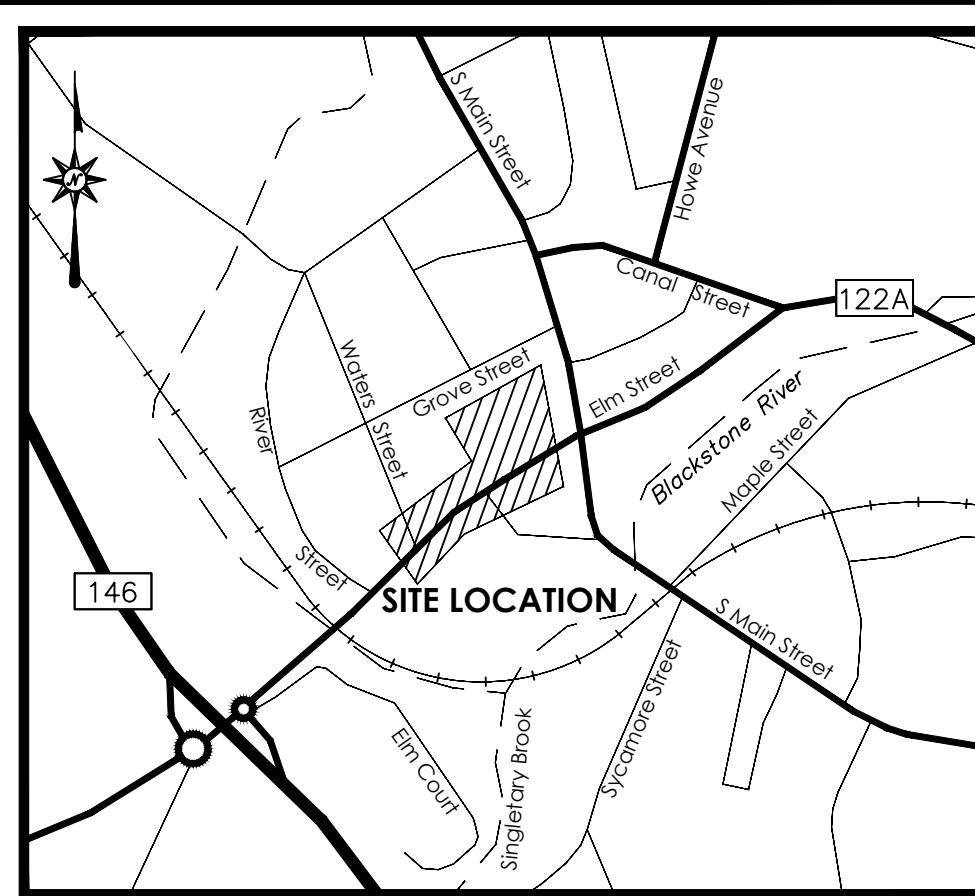
TOWN MANAGER

PER _____

DATE _____

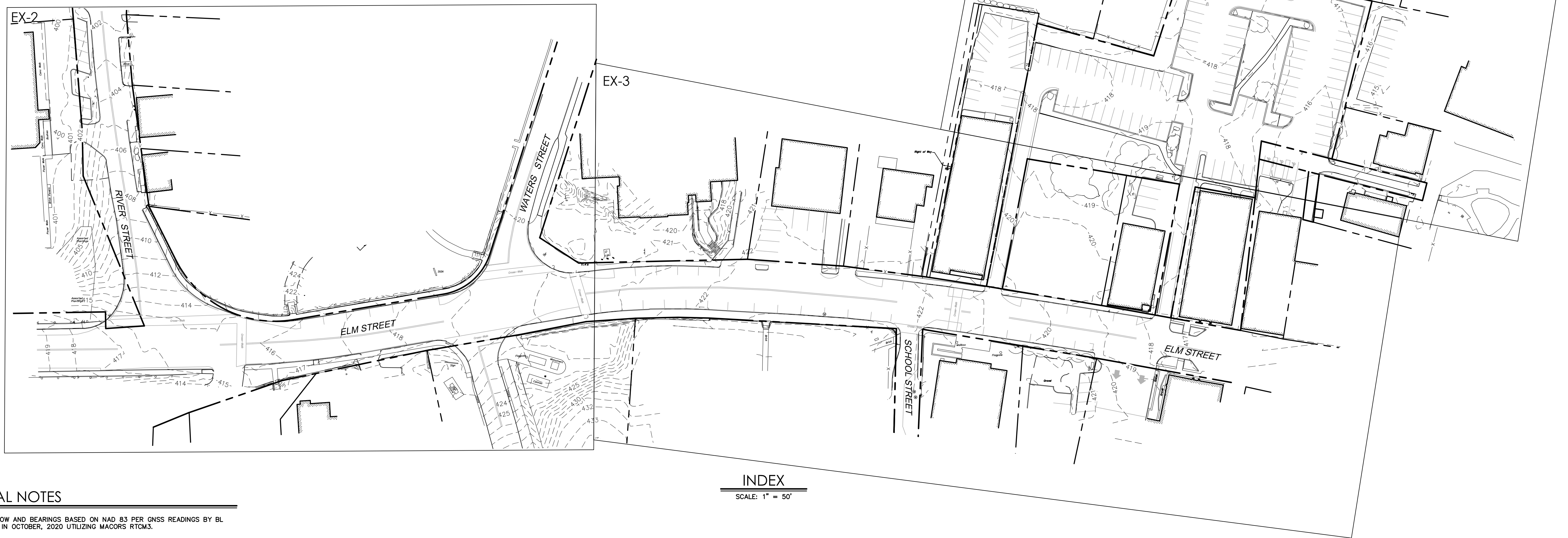
DATES

ISSUE DATE: May 26, 2021
REVISION: September 21, 2021



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'

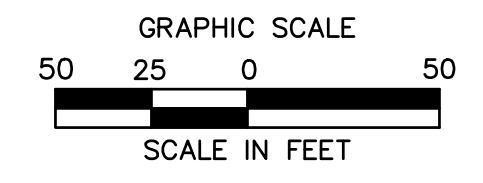
GENERAL NOTES

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: EX200147801

EXISTING
CONDITIONS
MAP

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: EX200147801

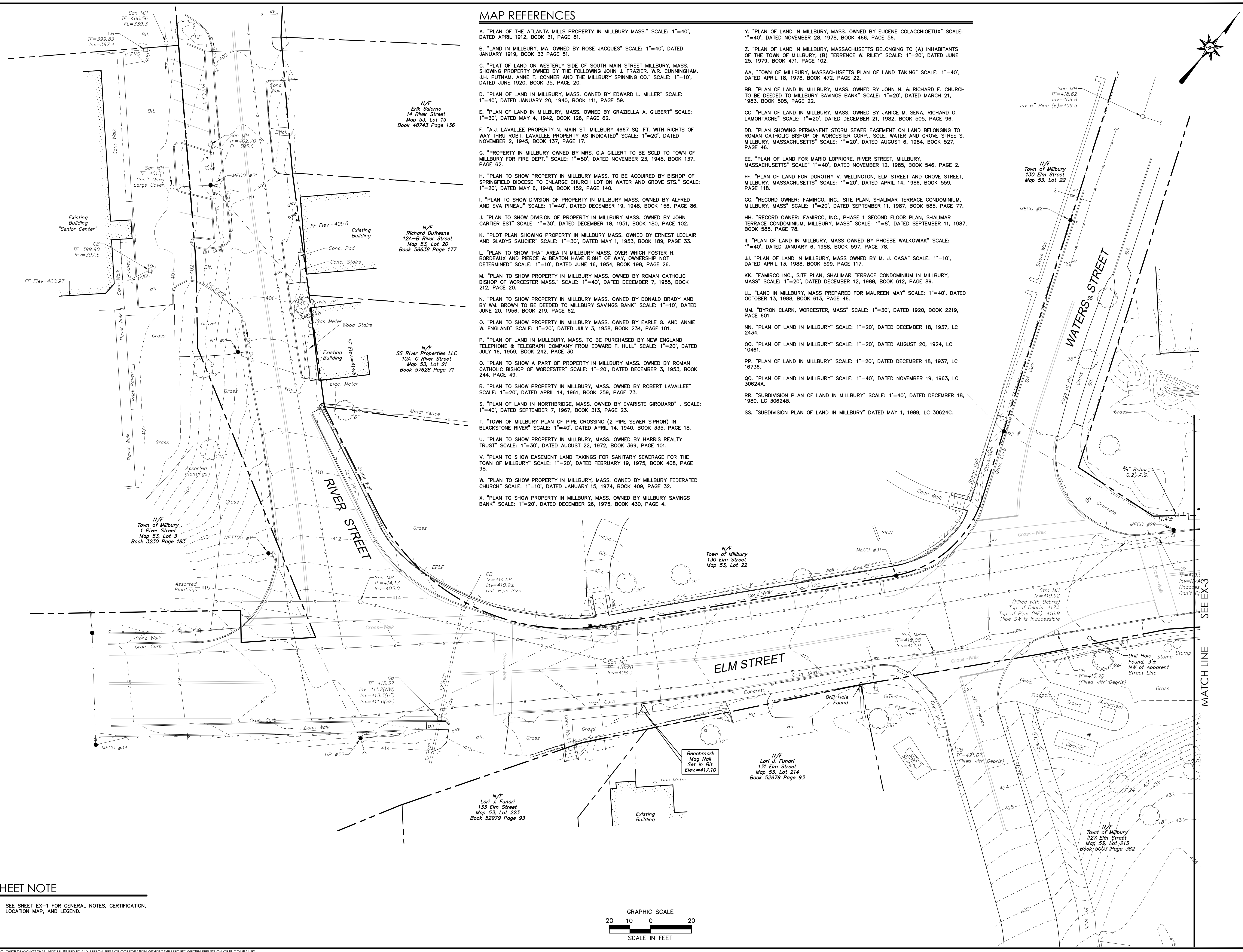
Title
EXISTING CONDITIONS MAP

Sheet No. 2 of 4

EX-2

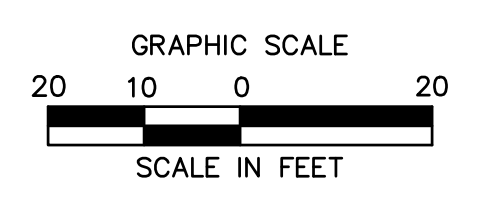
MAP REFERENCES

- 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

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



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MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MASSACHUSETTS

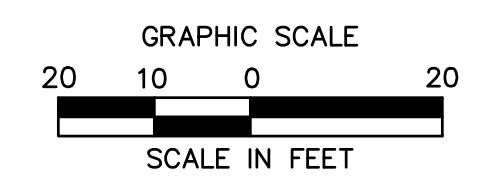
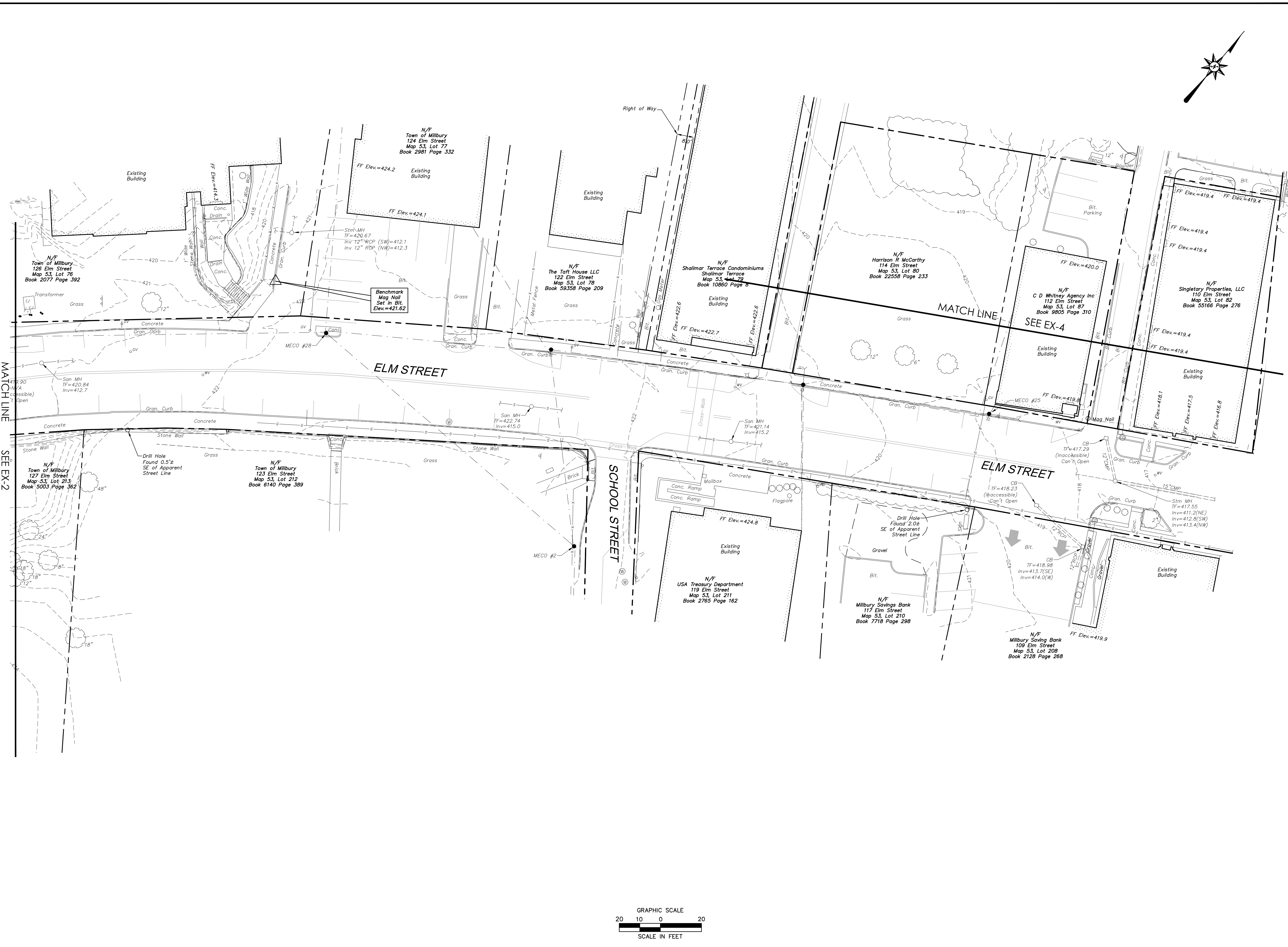
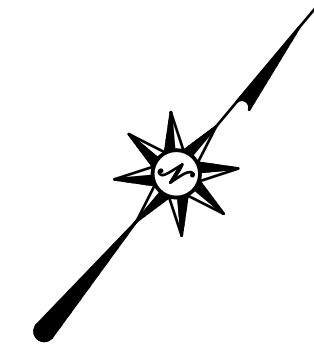
REVISIONS	
No.	Date

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: EX200147801

Title
**EXISTING
CONDITIONS
MAP**

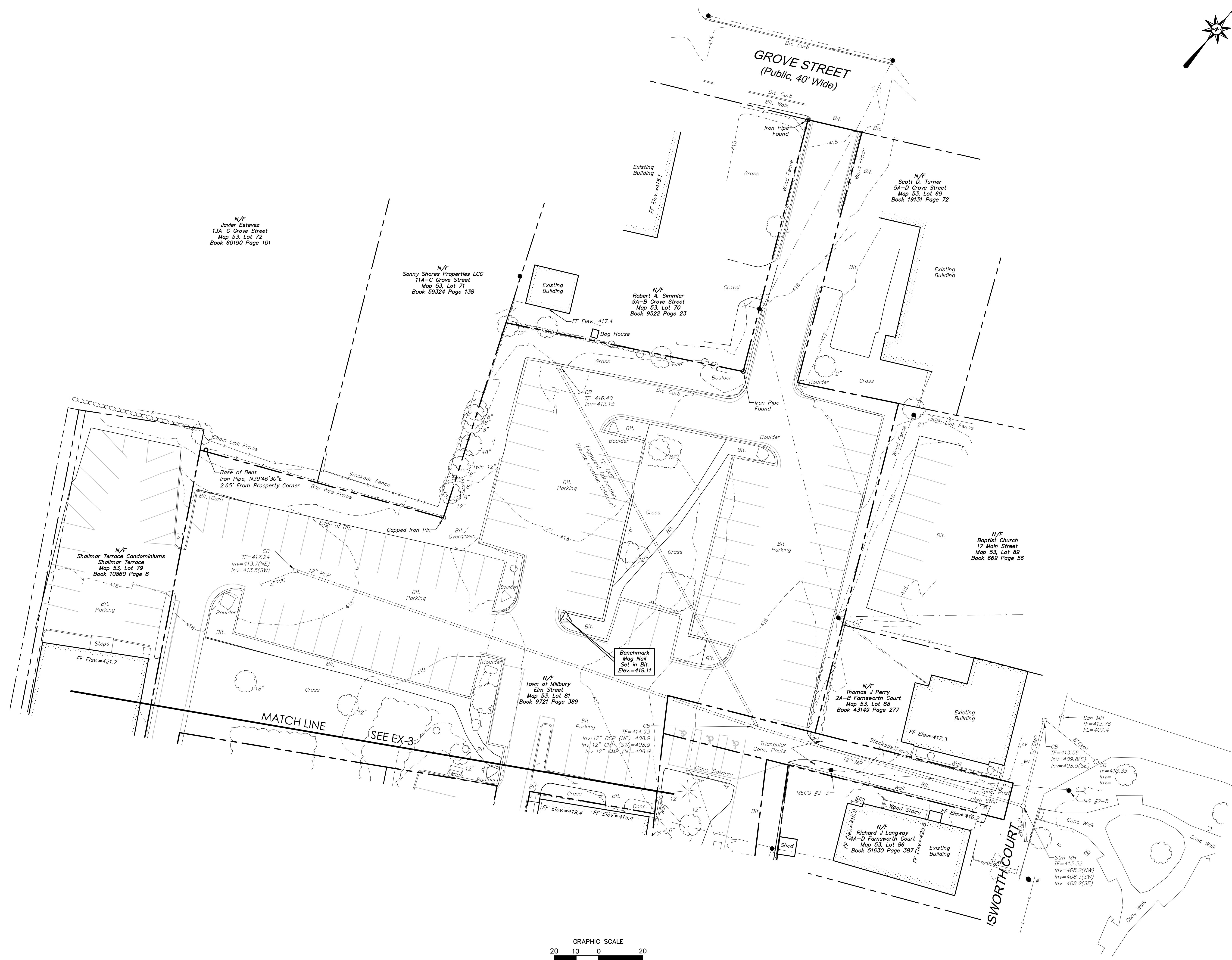
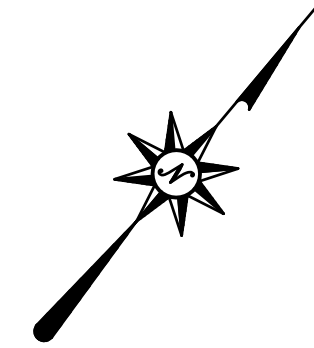
Sheet No. 3 of 4

EX-3



Sep 14, 2021 12:48pm zhongheng G:\JOB\2021\14 2021\478\DWG\EX200147801.dwg
 Layout: EX-3 24x36 2021

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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 10880 Page 8

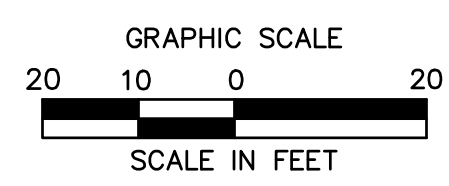
N/F
Baptist Church
17 Main Street
Map 53, Lot 89
Book 669 Page 56

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

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

MATCH LINE
SEE EX-3



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MASSACHUSETTS

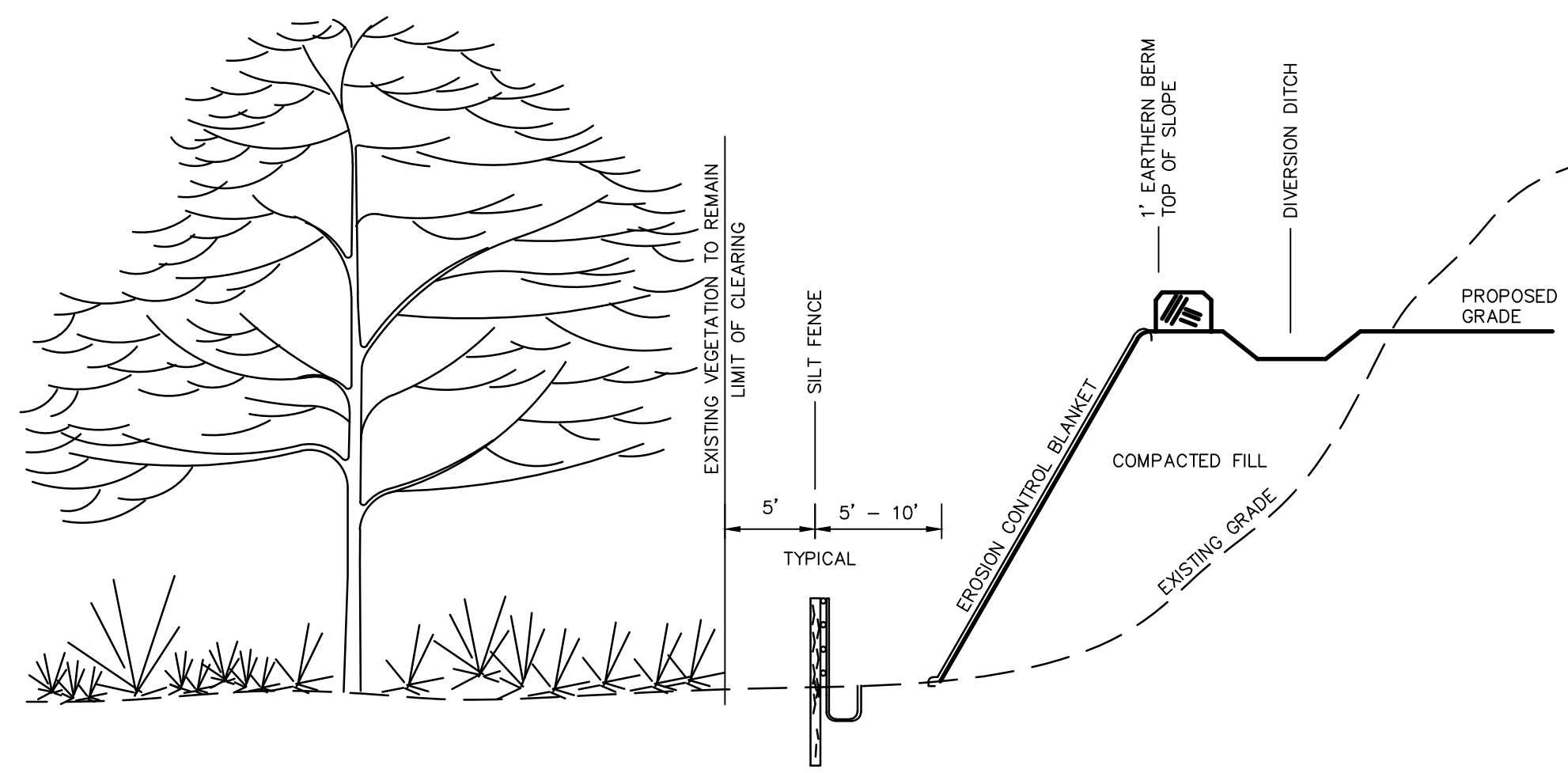
REVISIONS	Date
No.	Date

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: EX200147801

Title
**EXISTING
CONDITIONS
MAP**

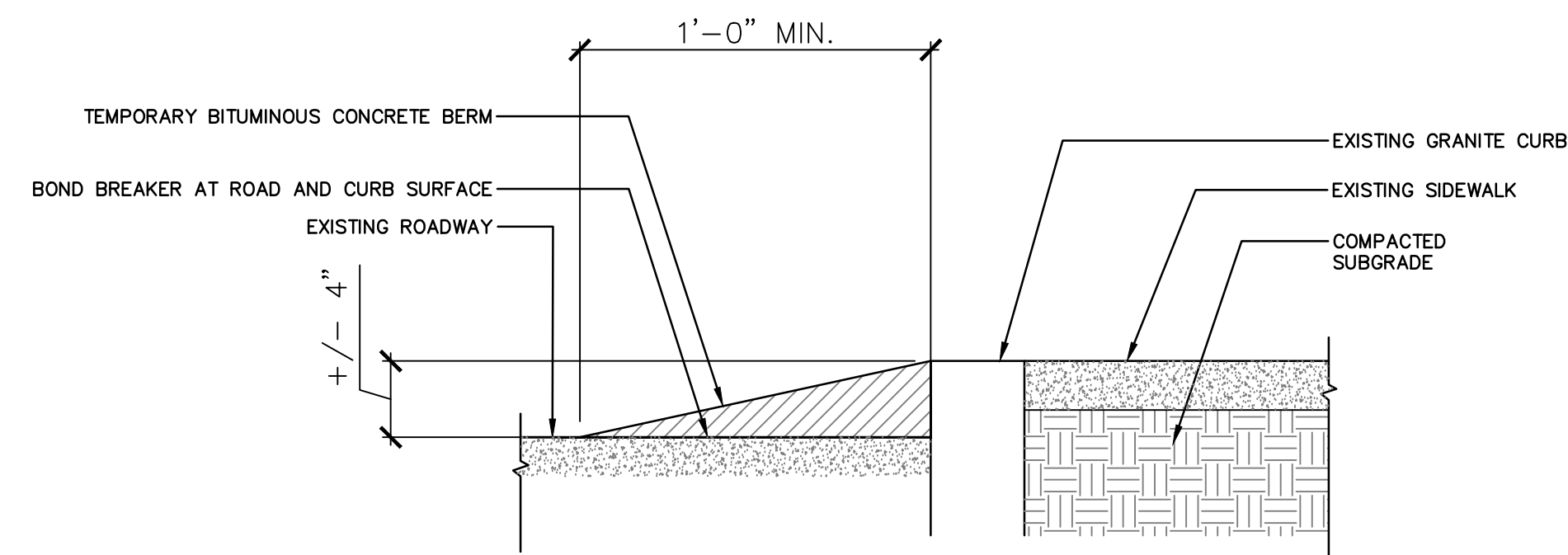
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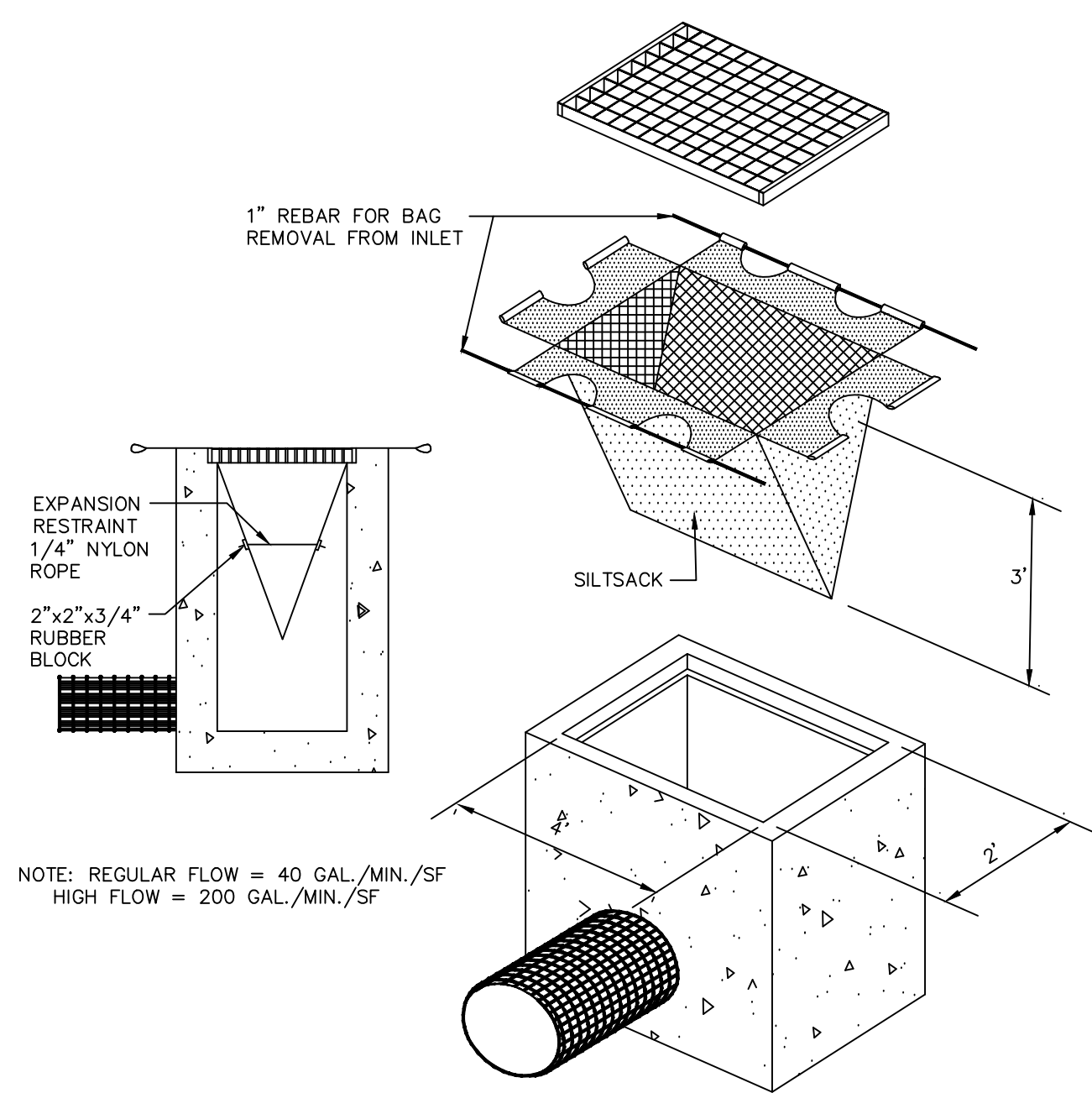
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N.T.S. BLEC-011



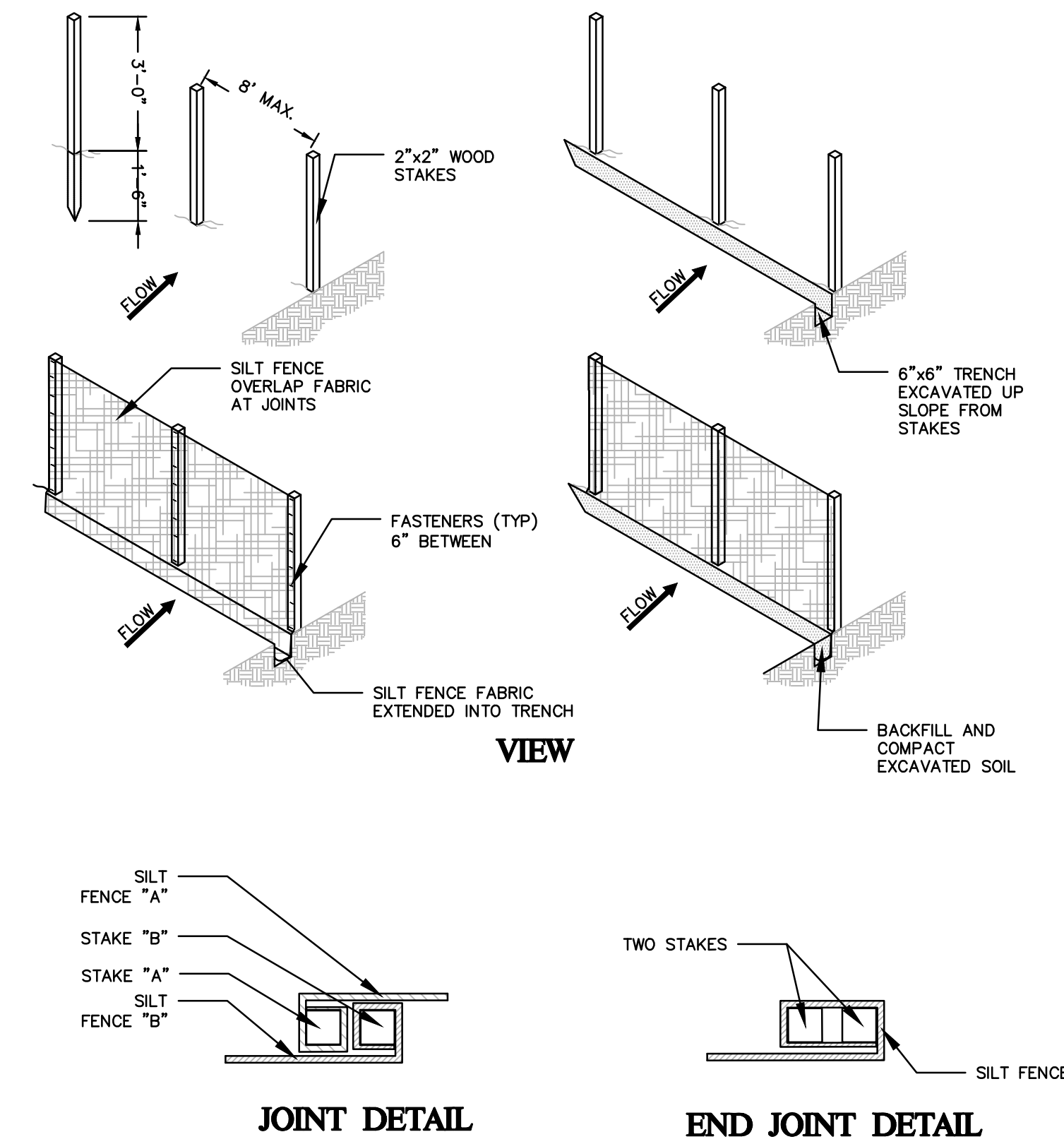
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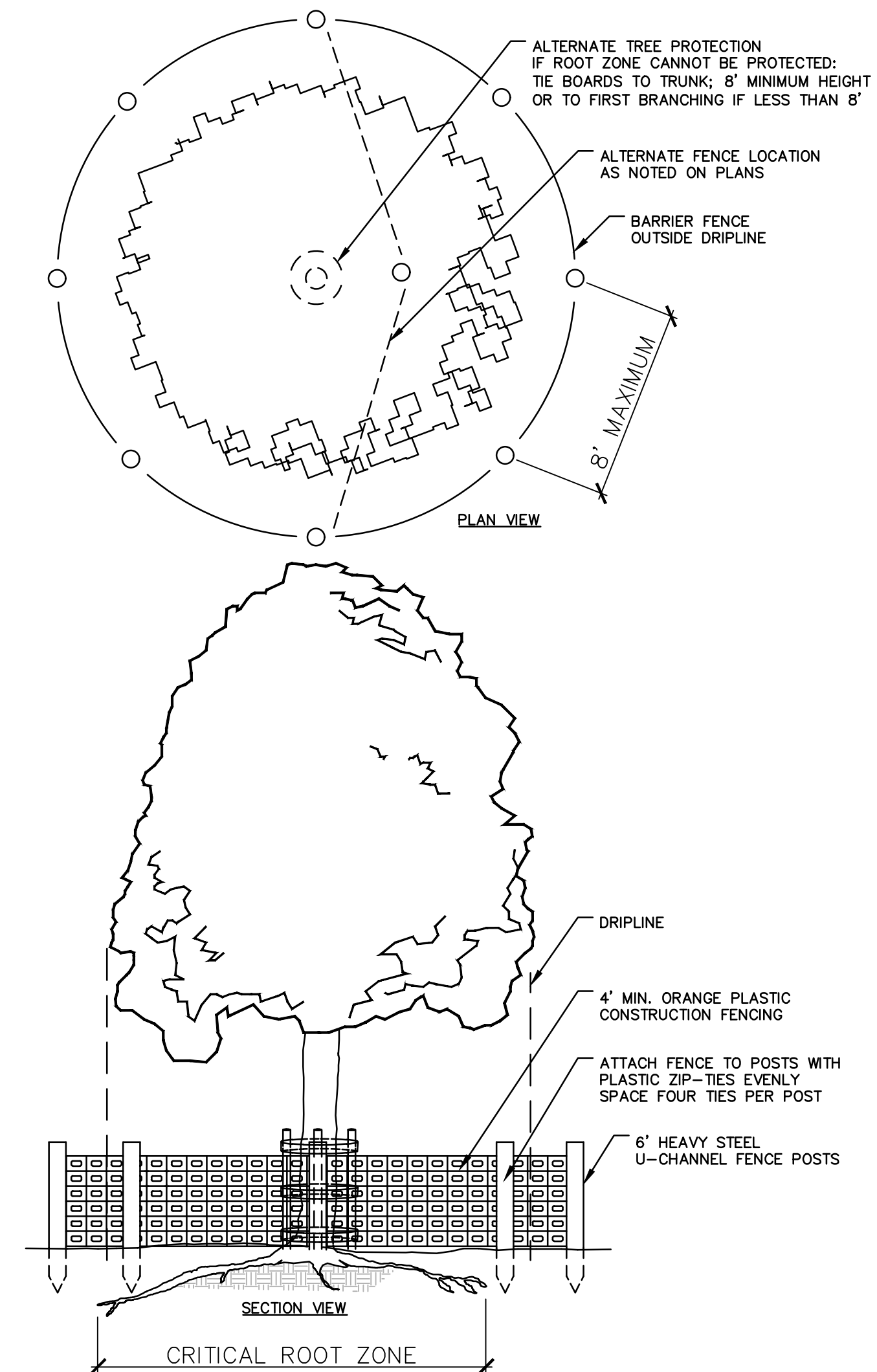
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SILT FENCE BARRIER

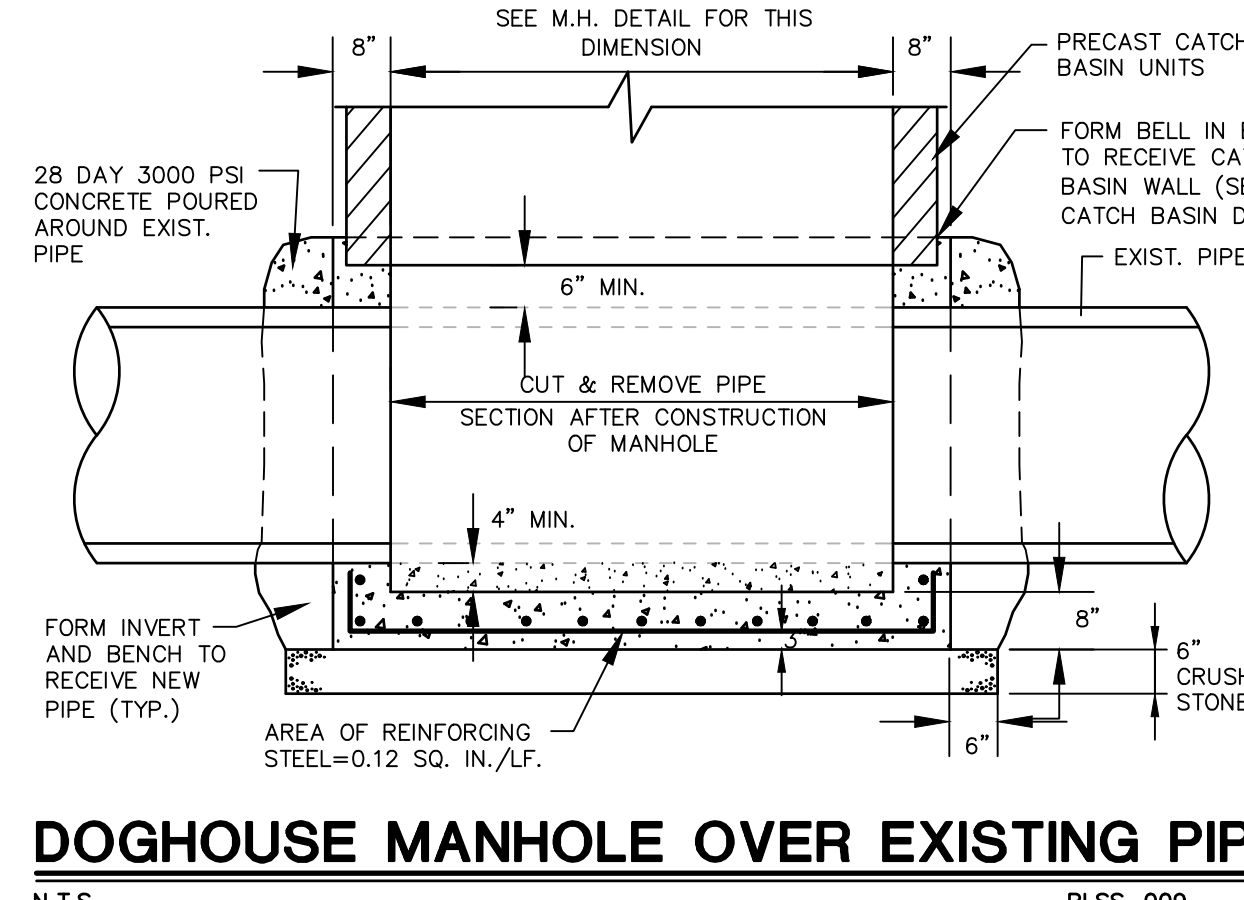
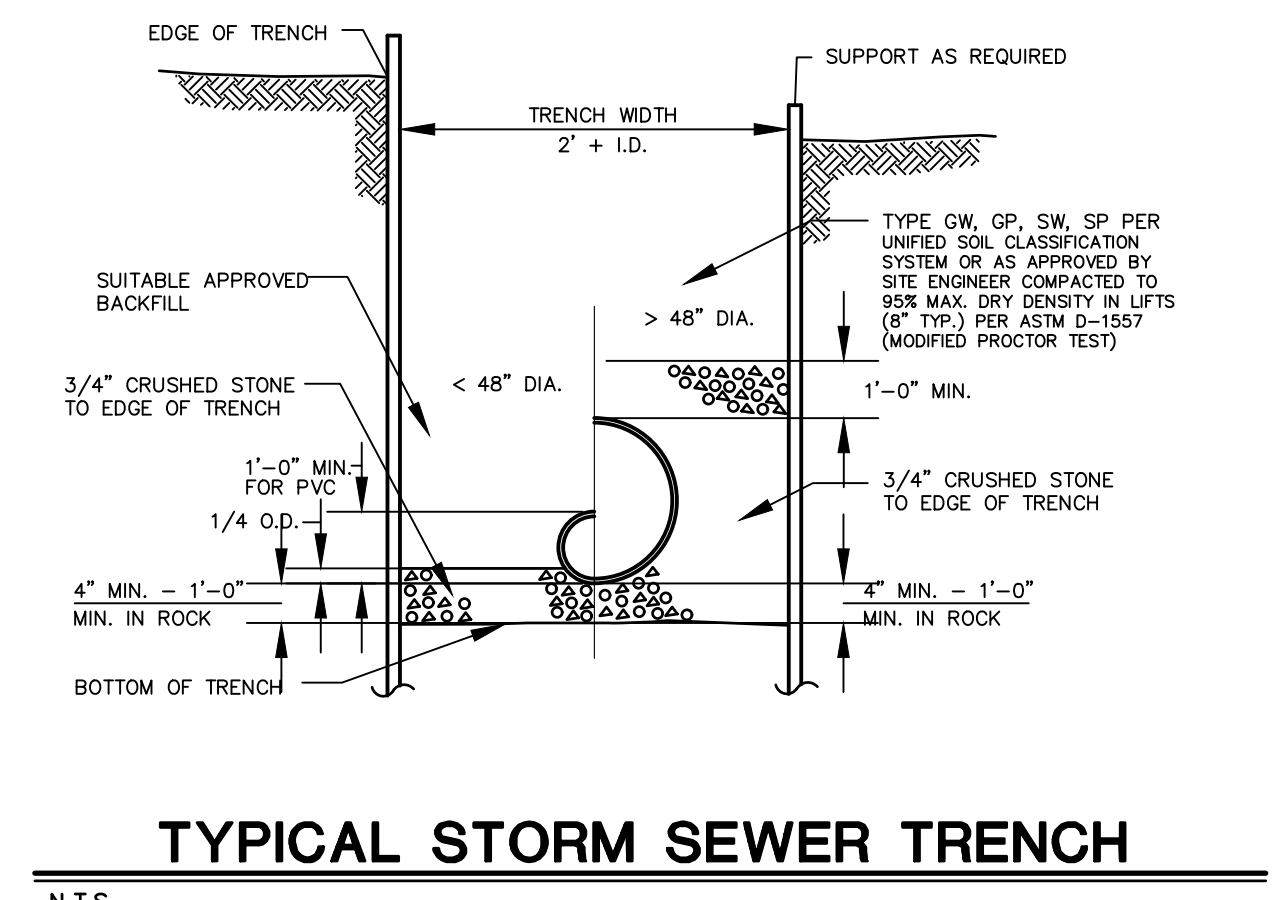
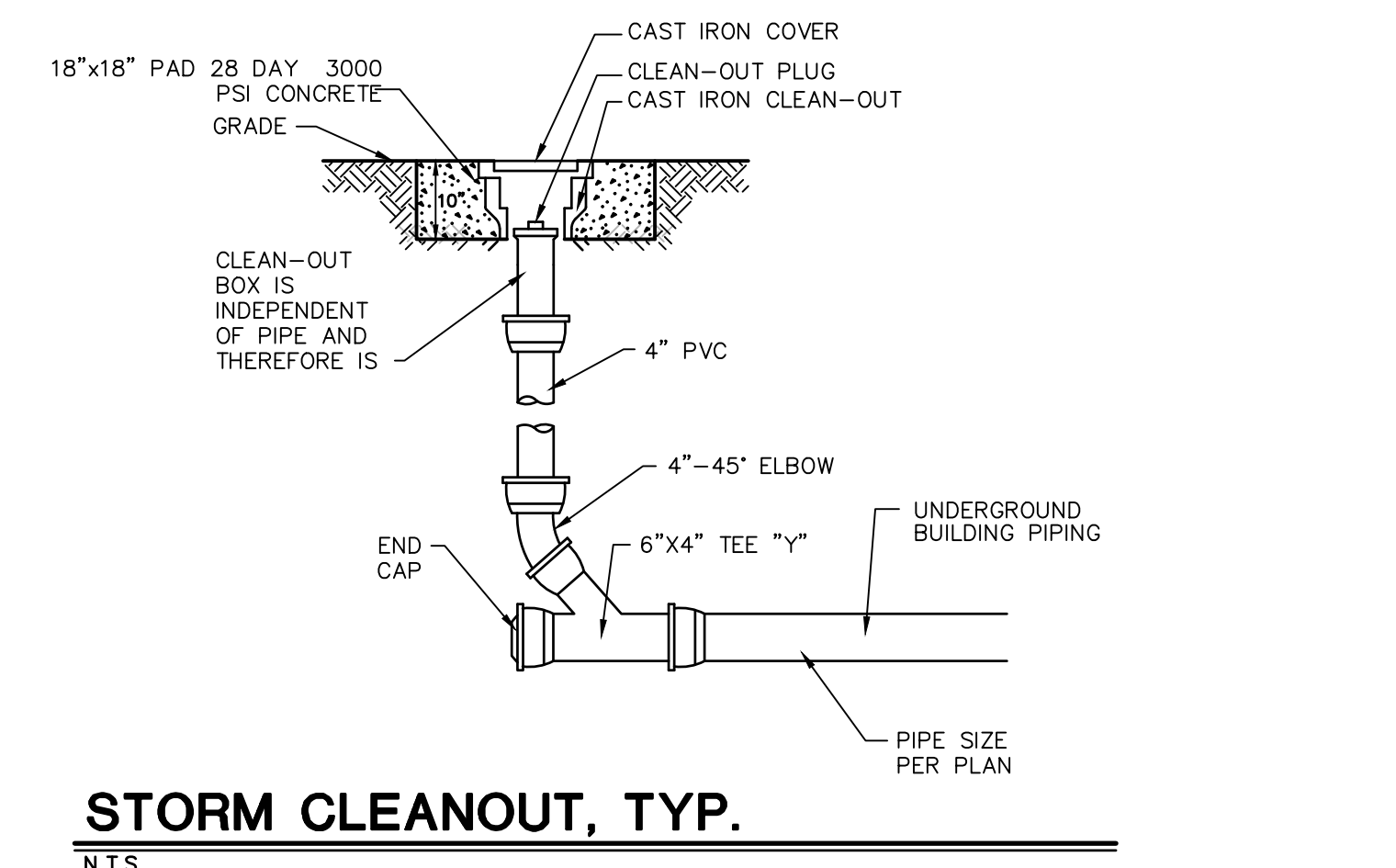
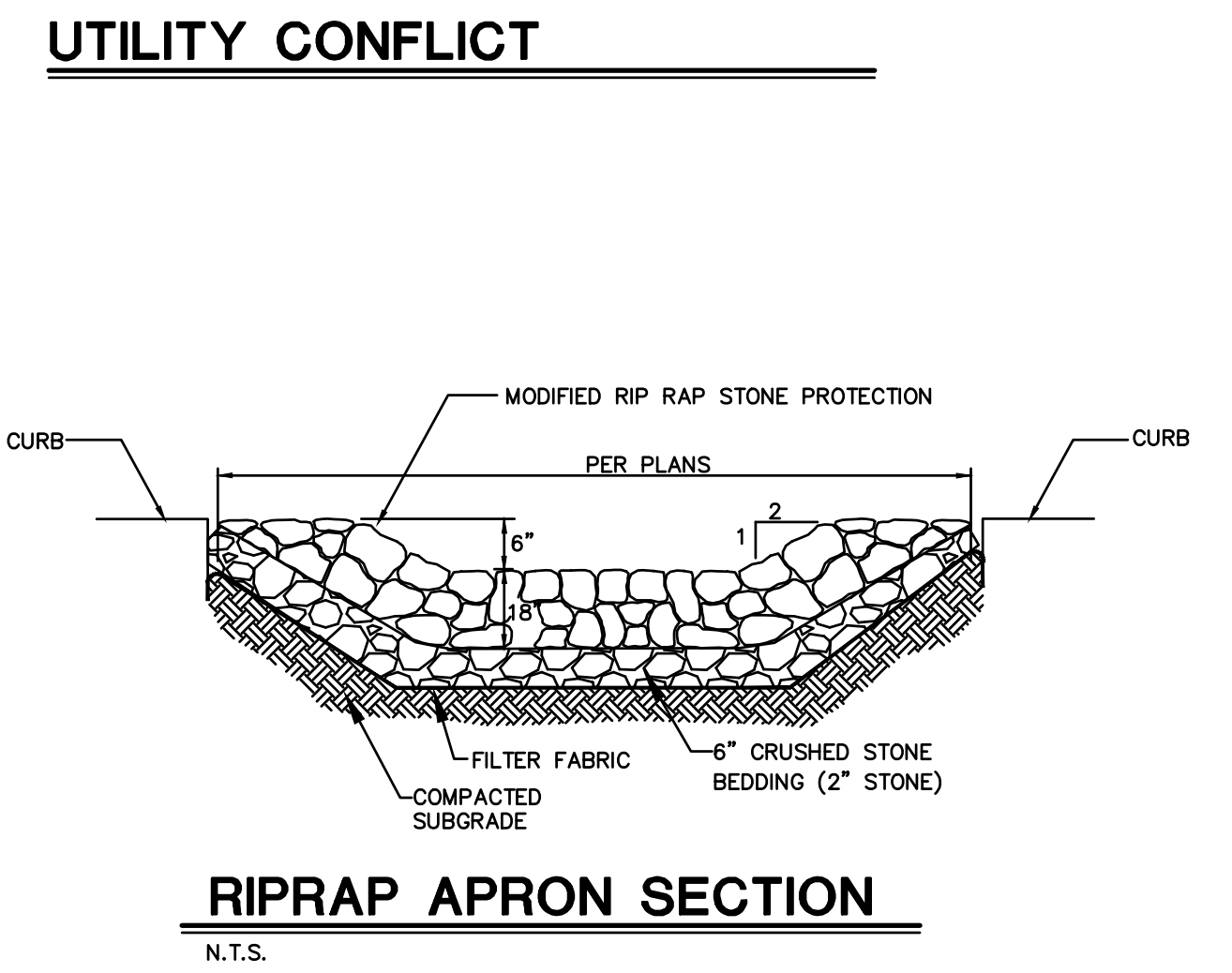
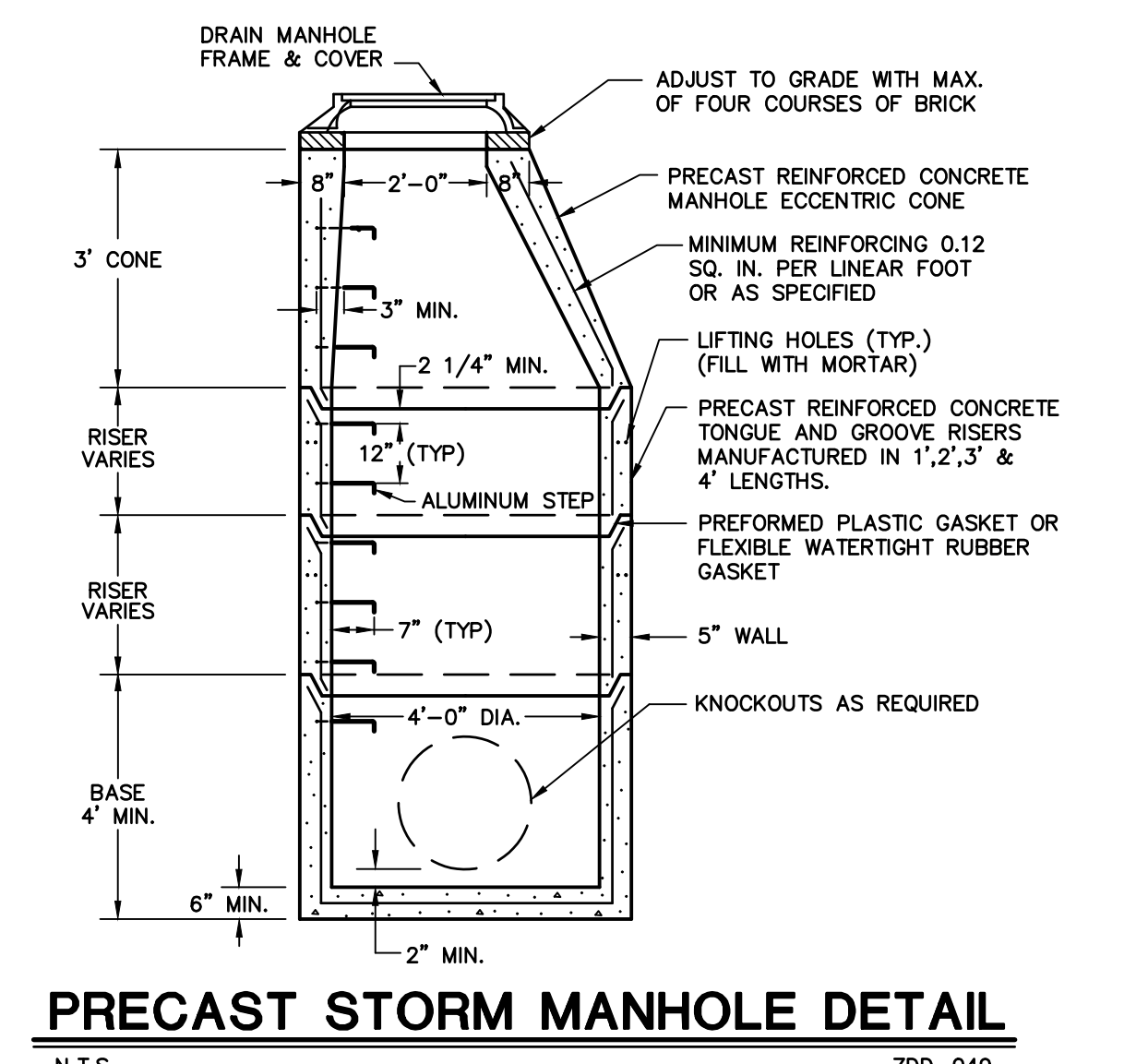
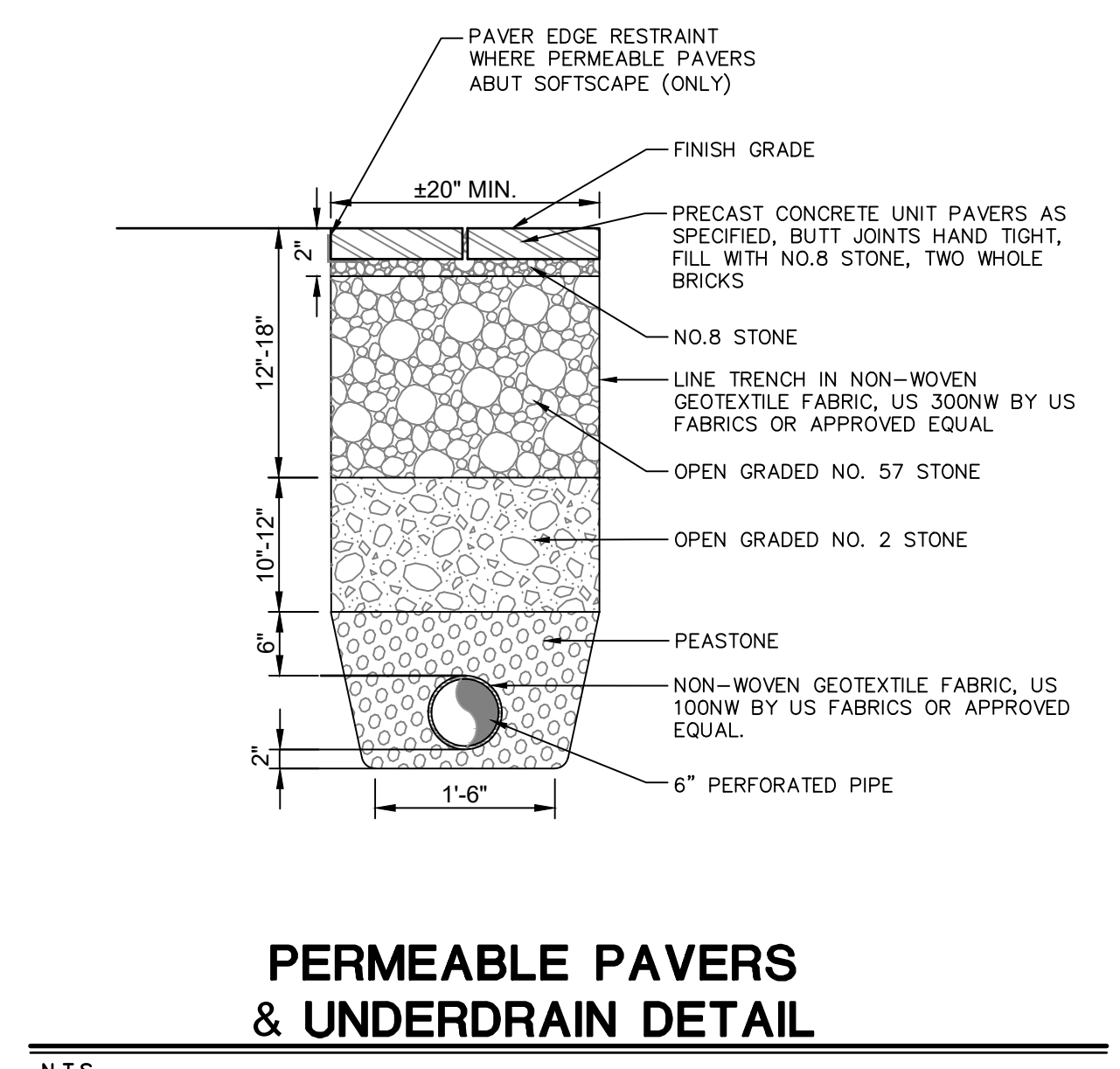
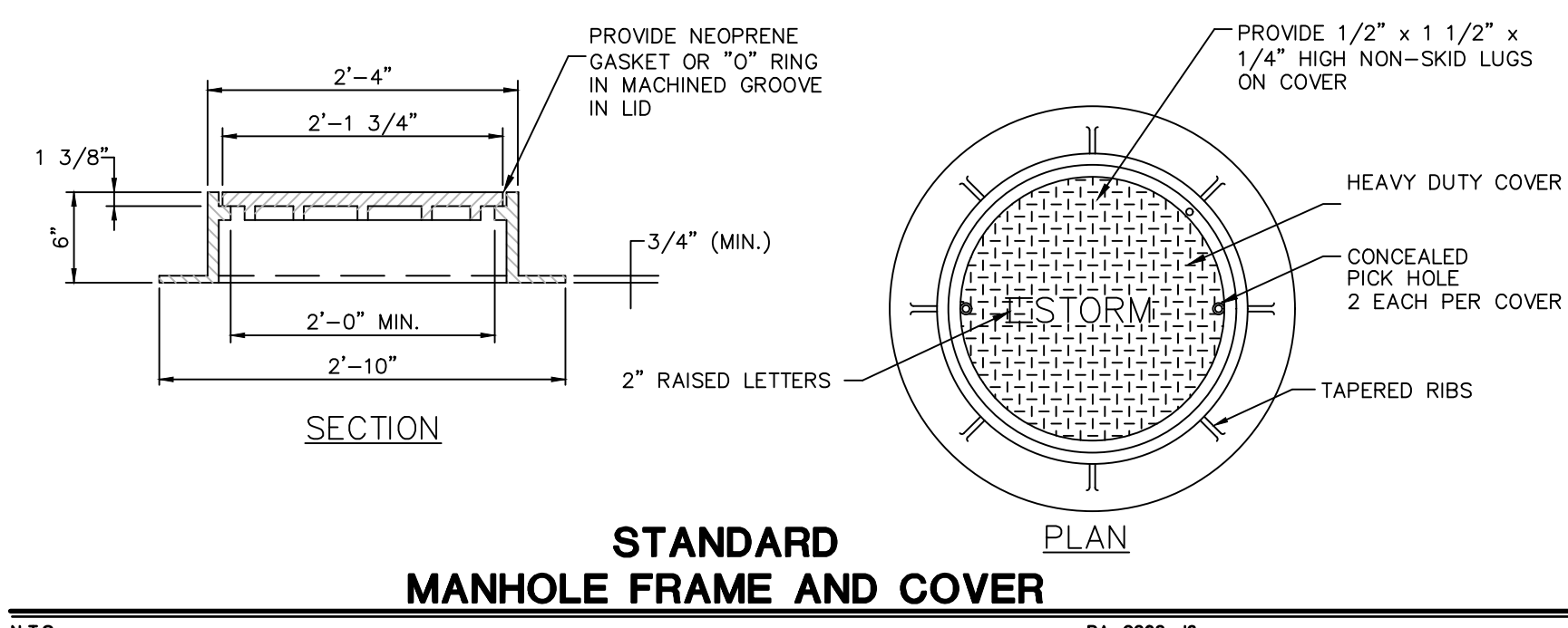
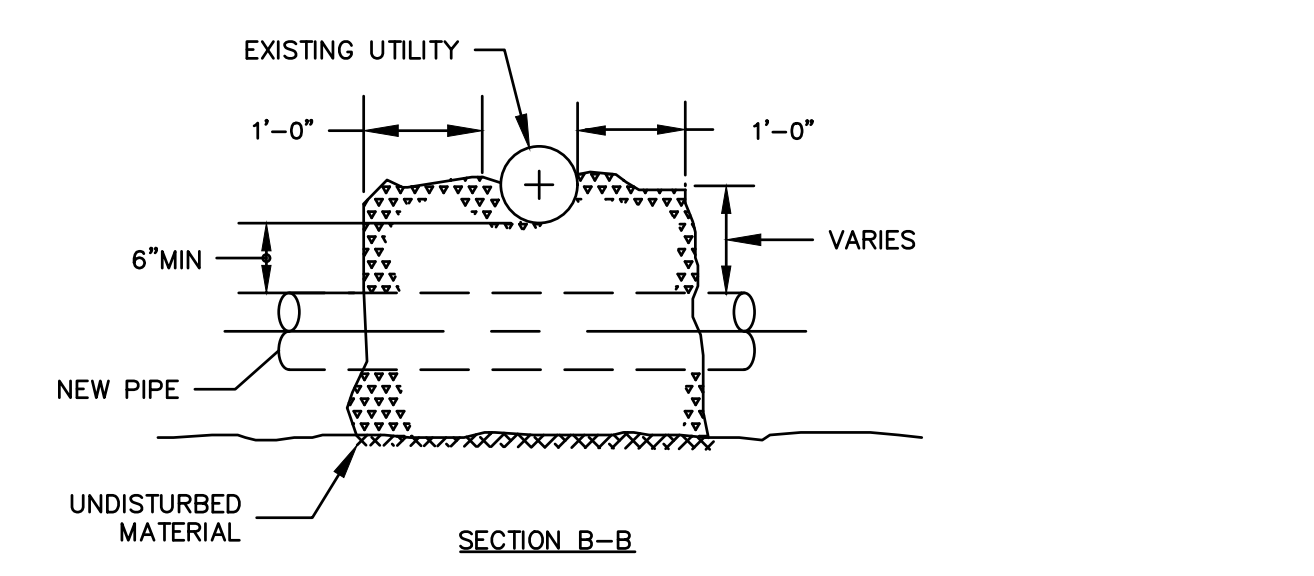
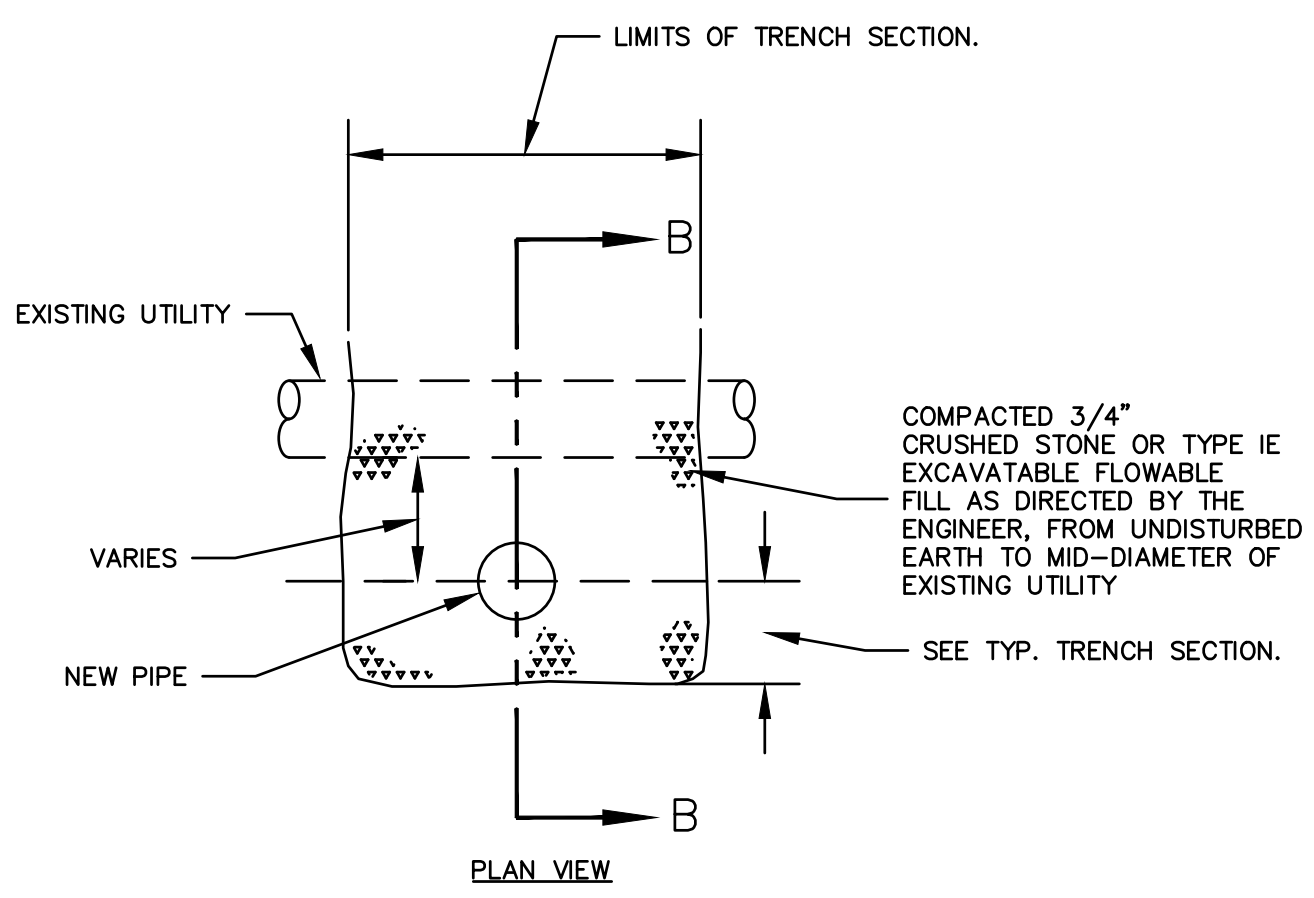
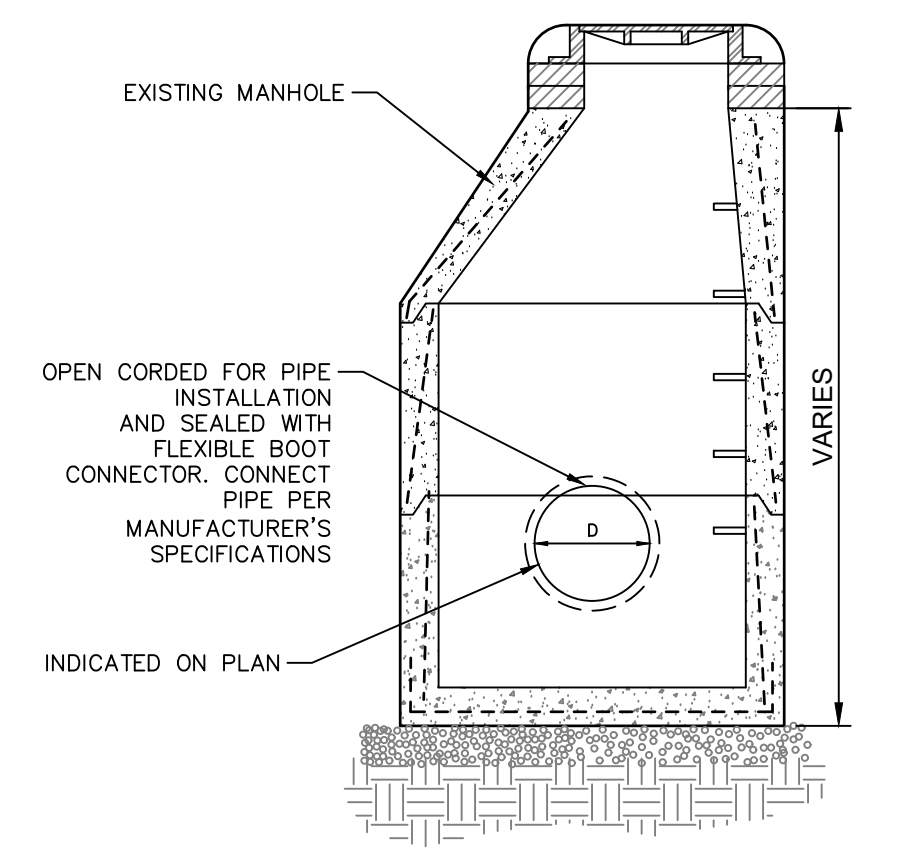
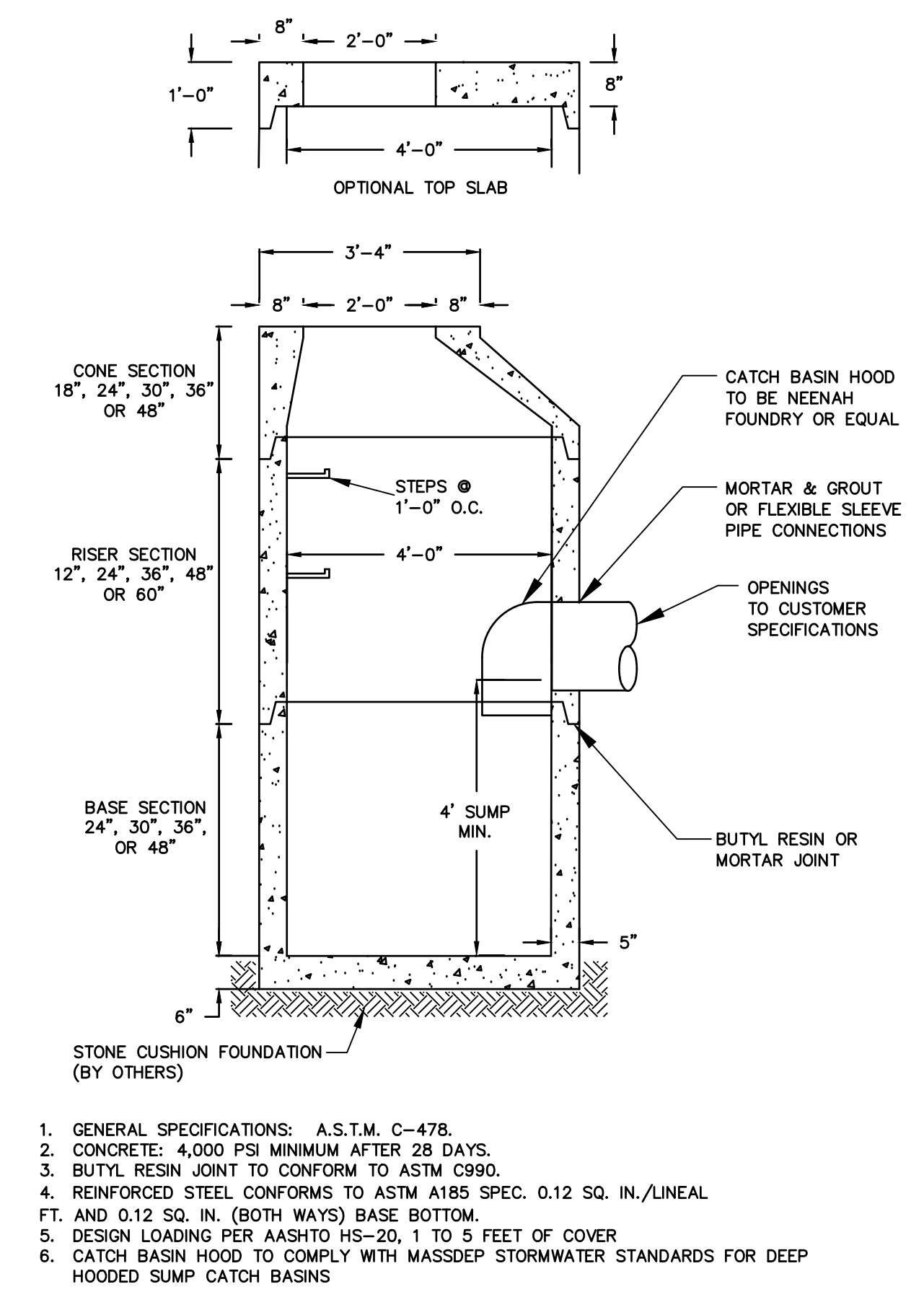
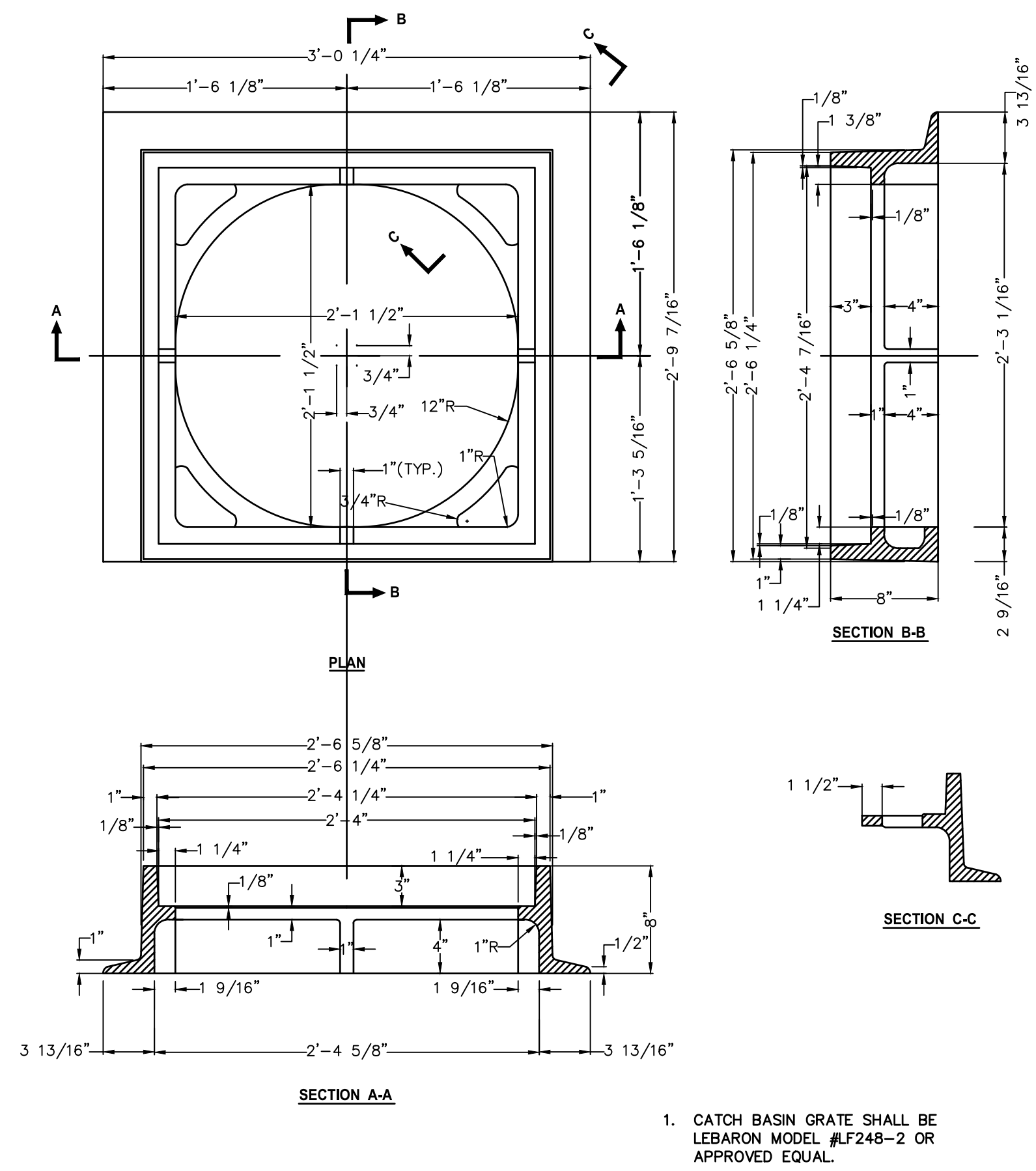
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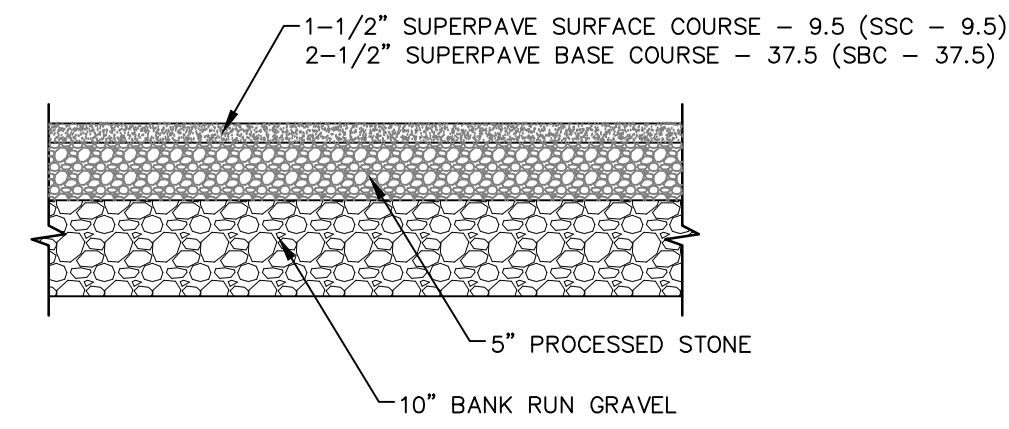
TREE PROTECTION

N.T.S.

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.

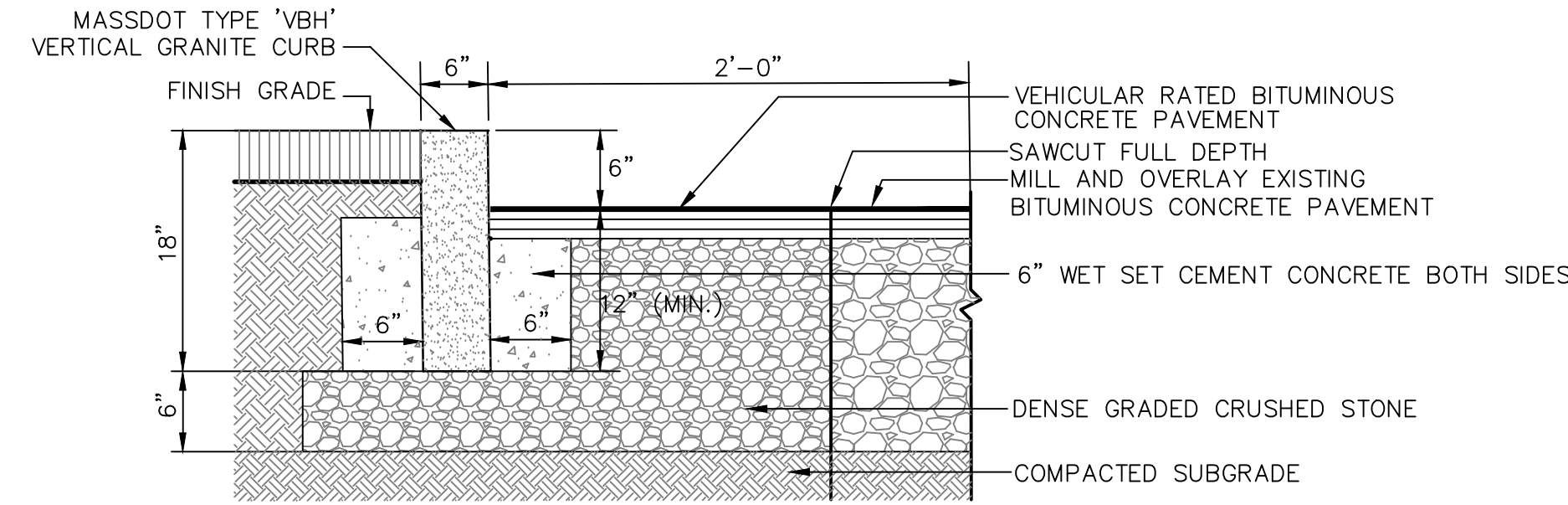


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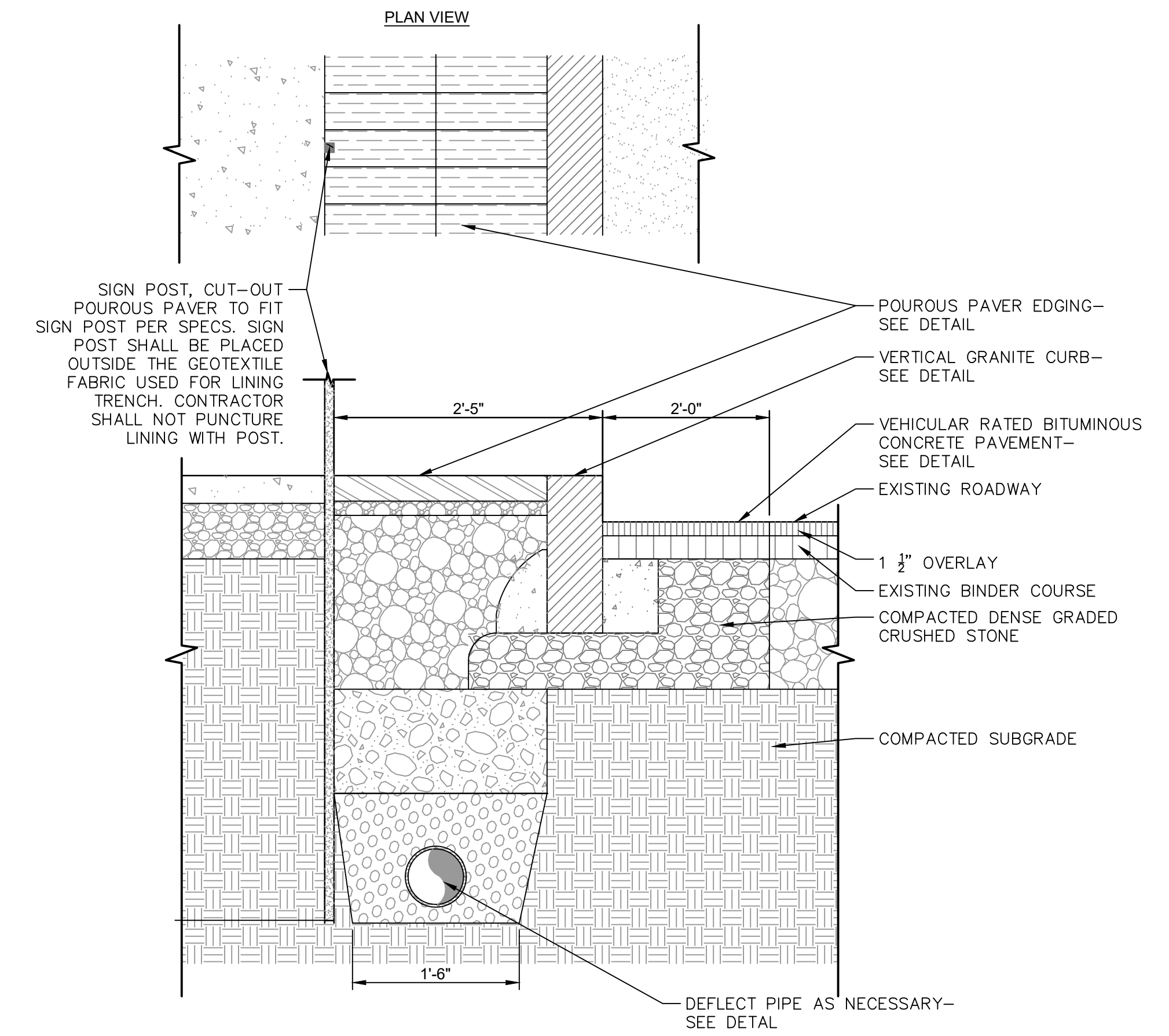
VEHICULAR RATED BITUMINOUS CONCRETE PAVEMENT

N.T.S.



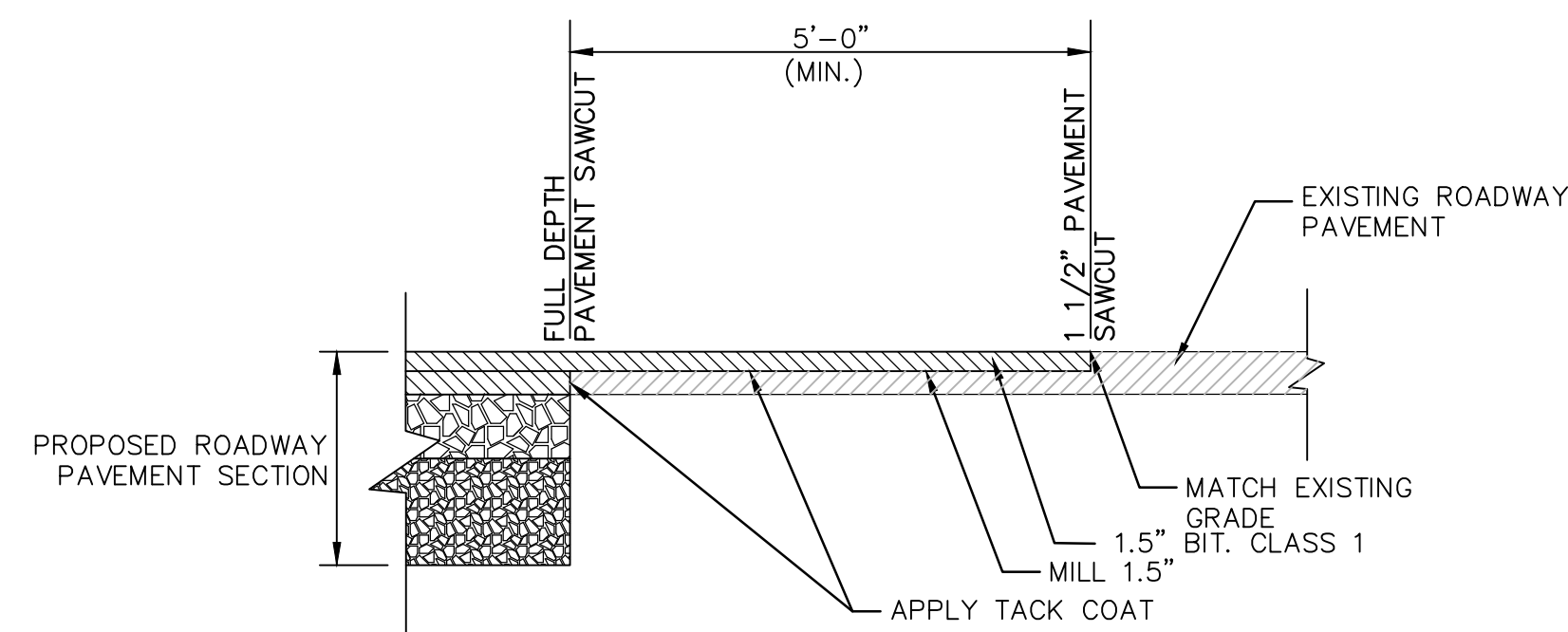
VERTICAL GRANITE CURB

N.T.S.



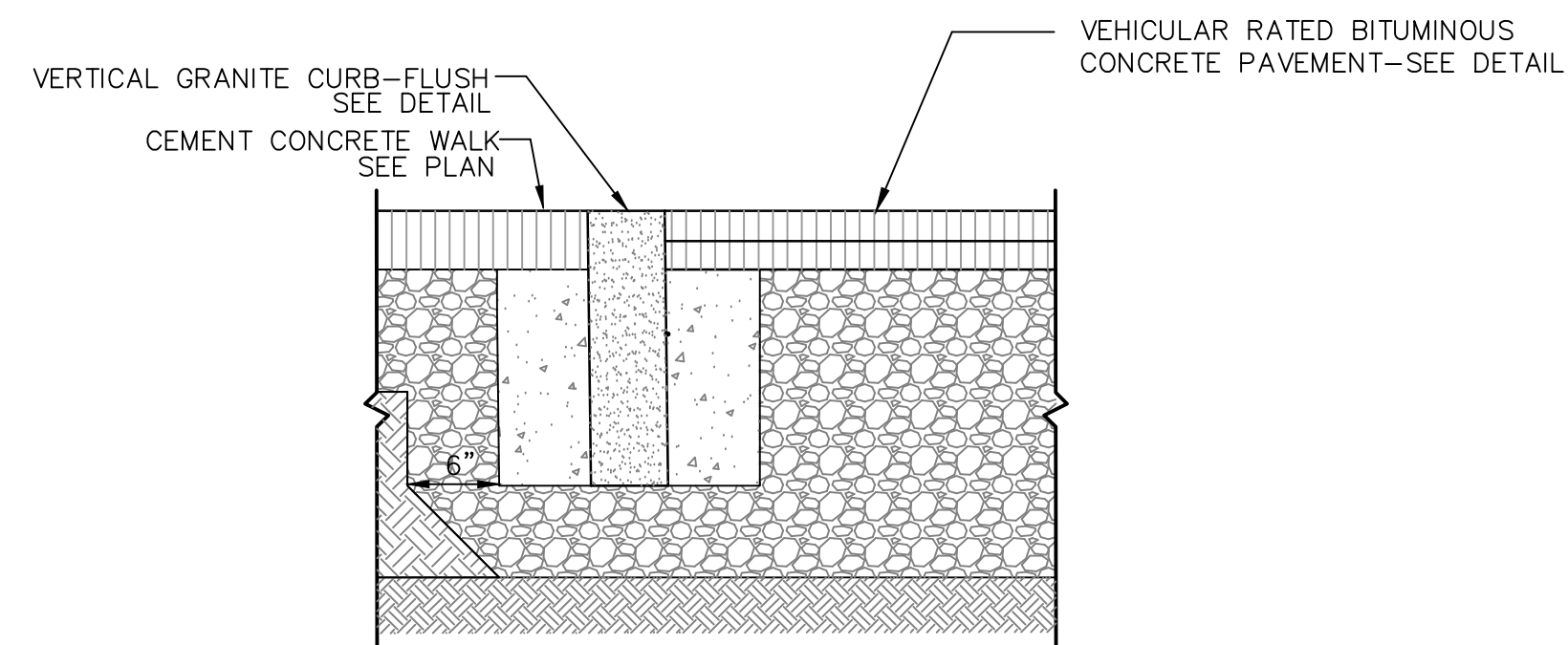
RELOCATED/RESET TRAFFIC SIGN

N.T.S.



PAVEMENT MATCHING DETAIL

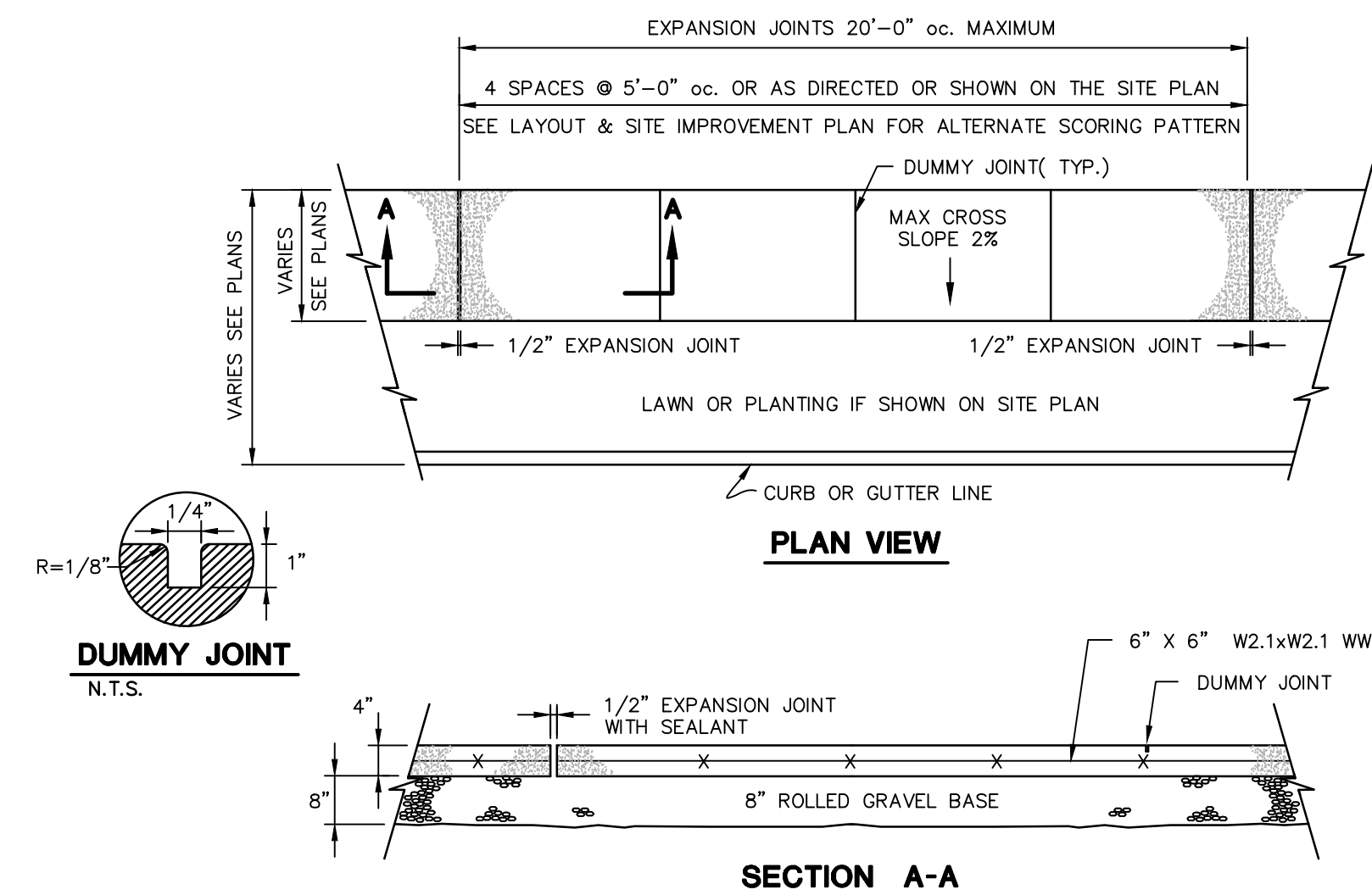
N.T.S.



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.

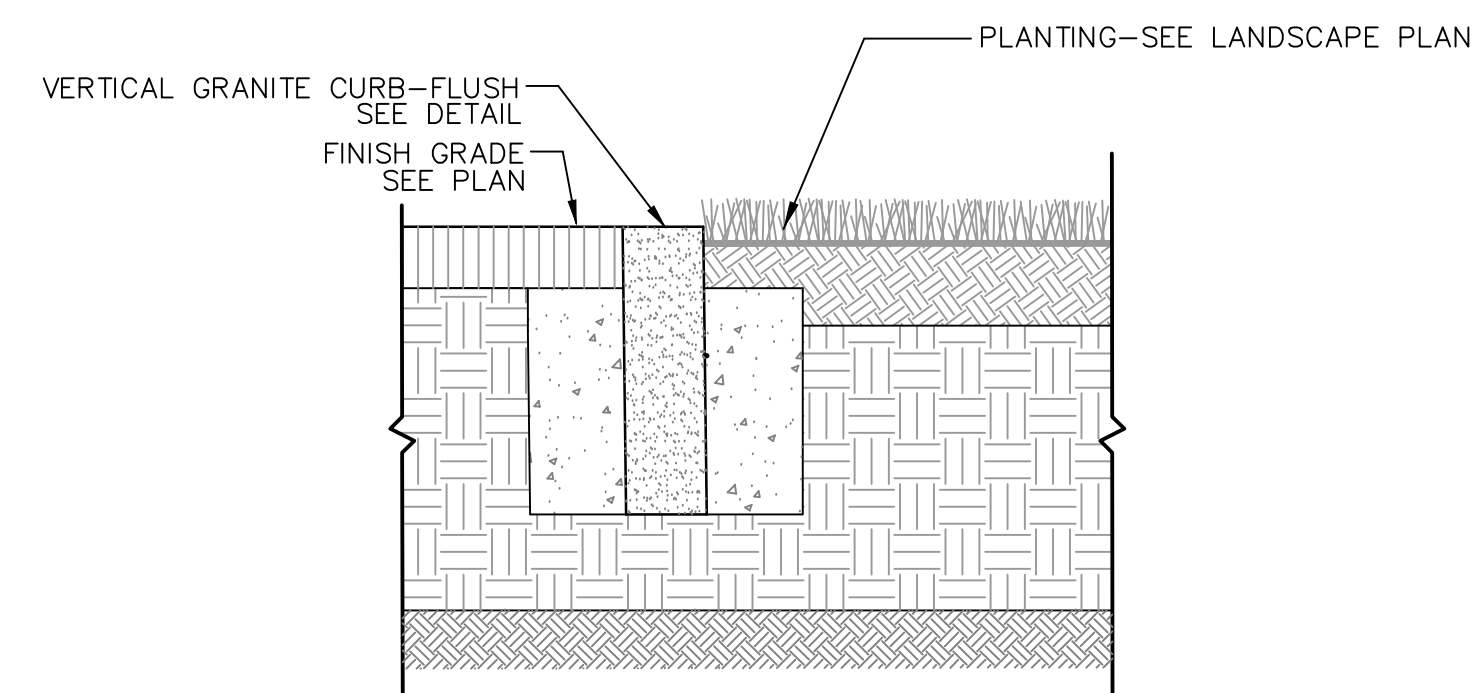
VERTICAL GRANITE CURB-FLUSH

N.T.S.



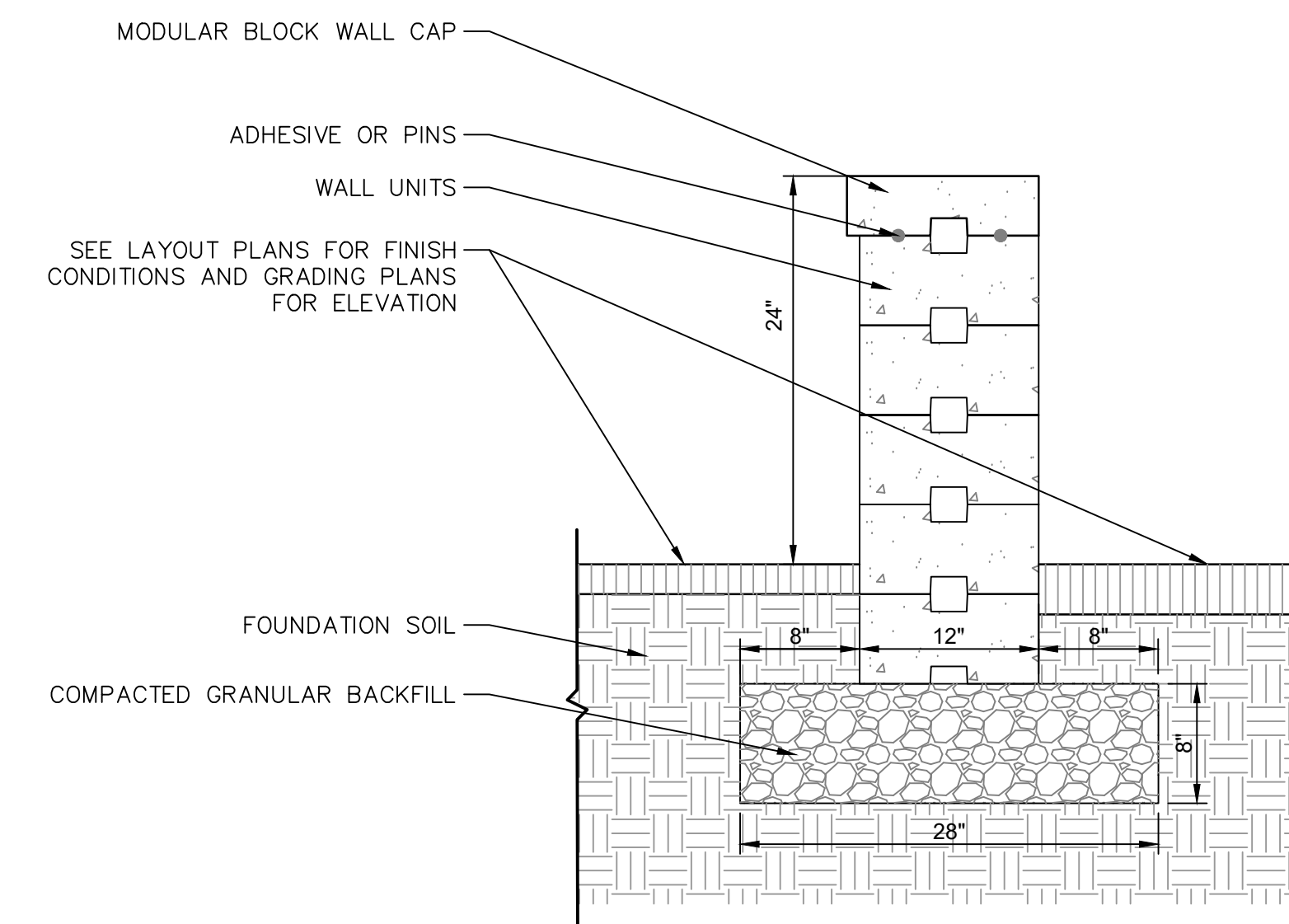
CONCRETE SIDEWALK

N.T.S.



VERTICAL GRANITE CURB-FLUSH AT PLANTING

N.T.S.



MODULAR CONCRETE BLOCK SEAT WALL

N.T.S.

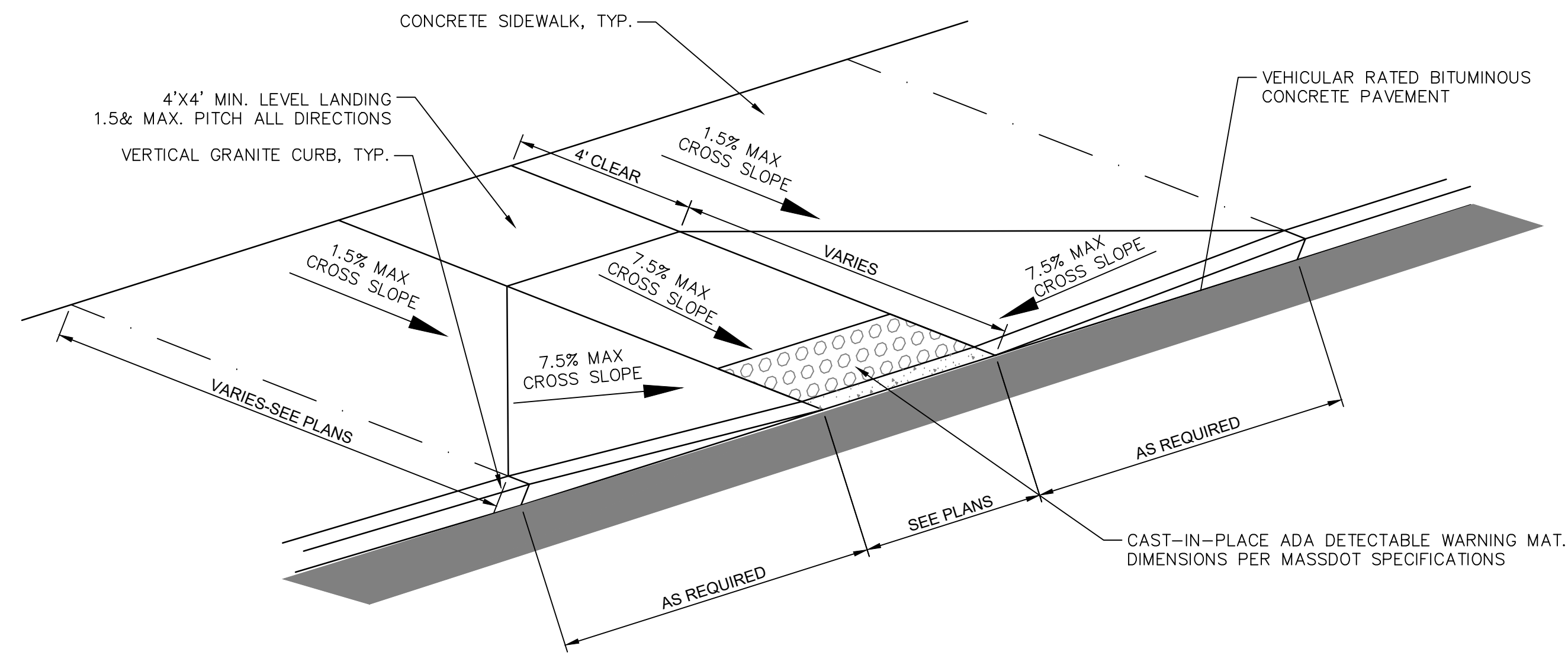
REVISIONS	Date	Desc.
No.		

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

SITE DETAILS

Sheet No.

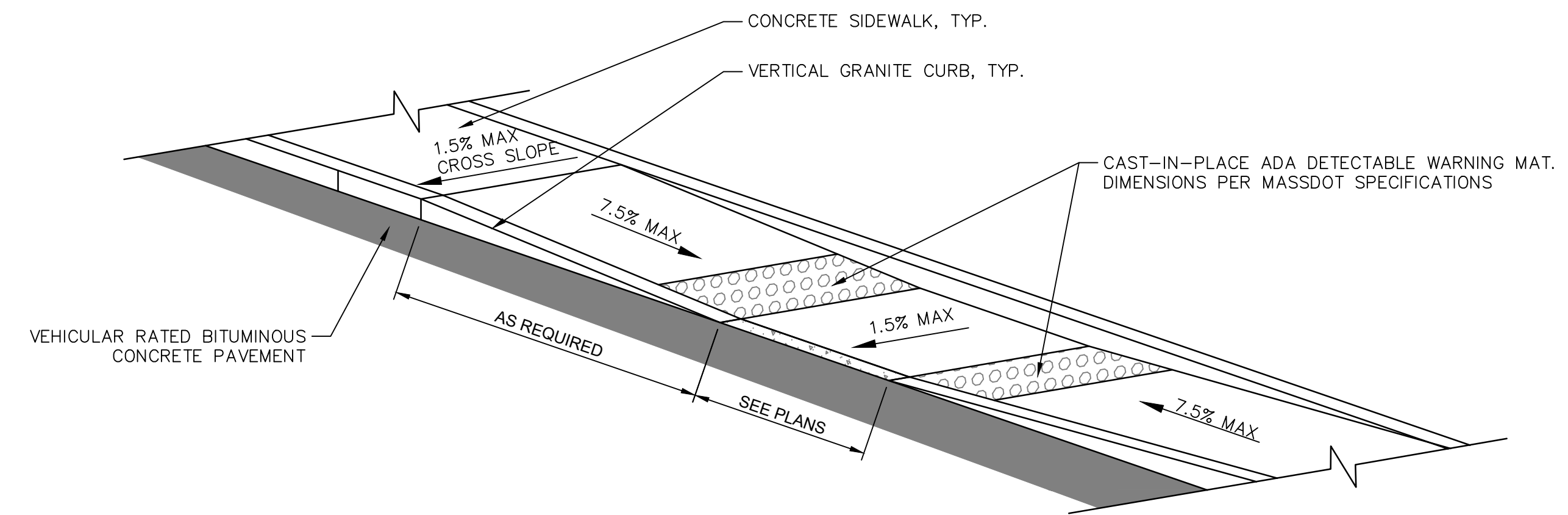
7/20/2021, 10:47:02 AM, \\BLCOMPANIES\COMPUTERS\PROJ\2001478\DWG\00147801.dwg, DN-05



- NOTES:**
- 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.
 - CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.
 - INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R

ADA CURB RAMP TYPE A

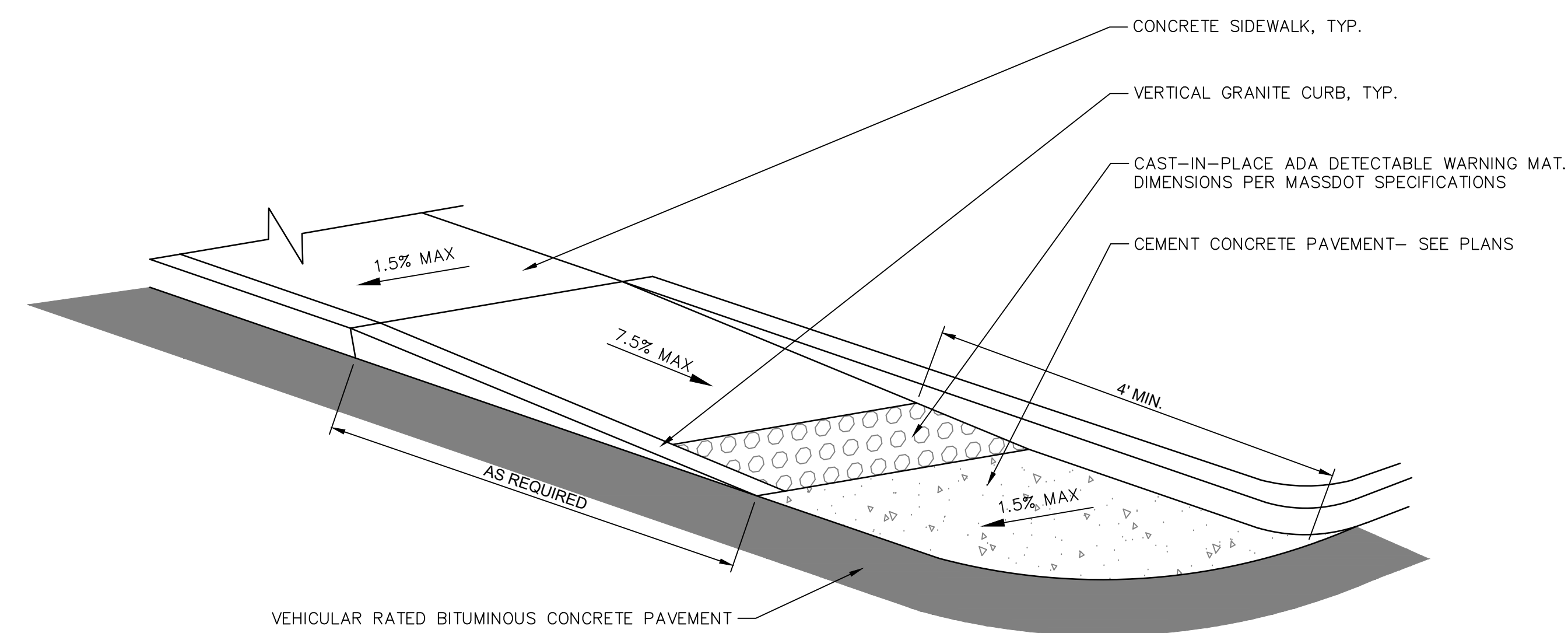
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- NOTES:**
- CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
 - CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.
 - INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R

ADA CURB RAMP TYPE B

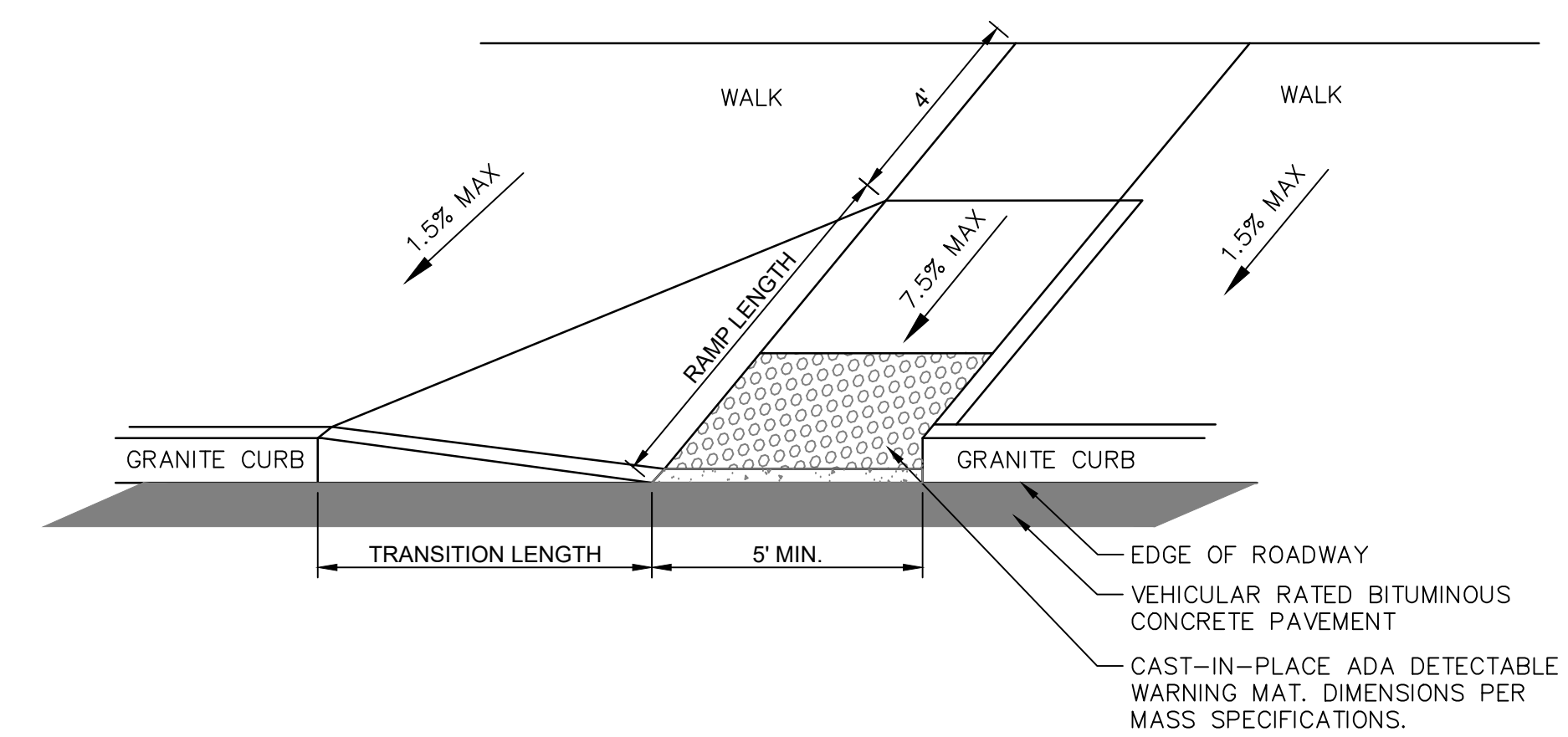
N.T.S.



- NOTES:**
- 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.
 - CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.
 - INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R

ADA CURB RAMP TYPE C

N.T.S.



- NOTES:**
- INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
 - EXISTING GRANITE DRIVEWAY GRANITE CURB TRANSITION STONES SHALL BE REMOVED AND RESET OR REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
 - 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.
 - SLOPE TOLERANCE FOR CONSTRUCTION 0.5% ±

ADA CURB RAMP TYPE D

N.T.S.

7/20/2021, KAREED, \\BLCOMPANIES\COM\DESIGN\PROJ\020201\4780\DWG\0201\4780.DWG (2) (4)

REVISIONS	
No.	Date

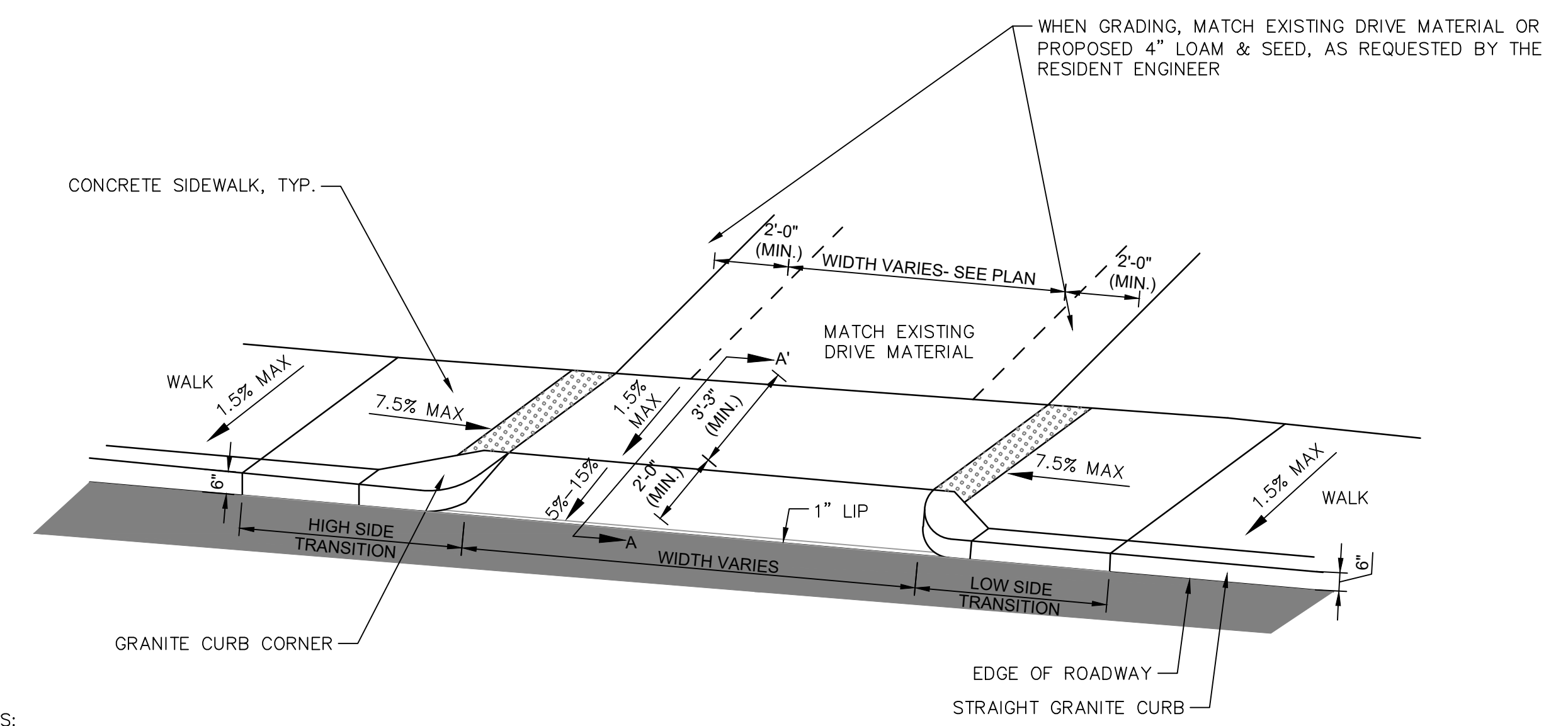
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Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	SEPTEMBER, 2021
CAD File:	DN200147801
Title	
SITE DETAILS	
Sheet No.	

REVISIONS	
No.	Date

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

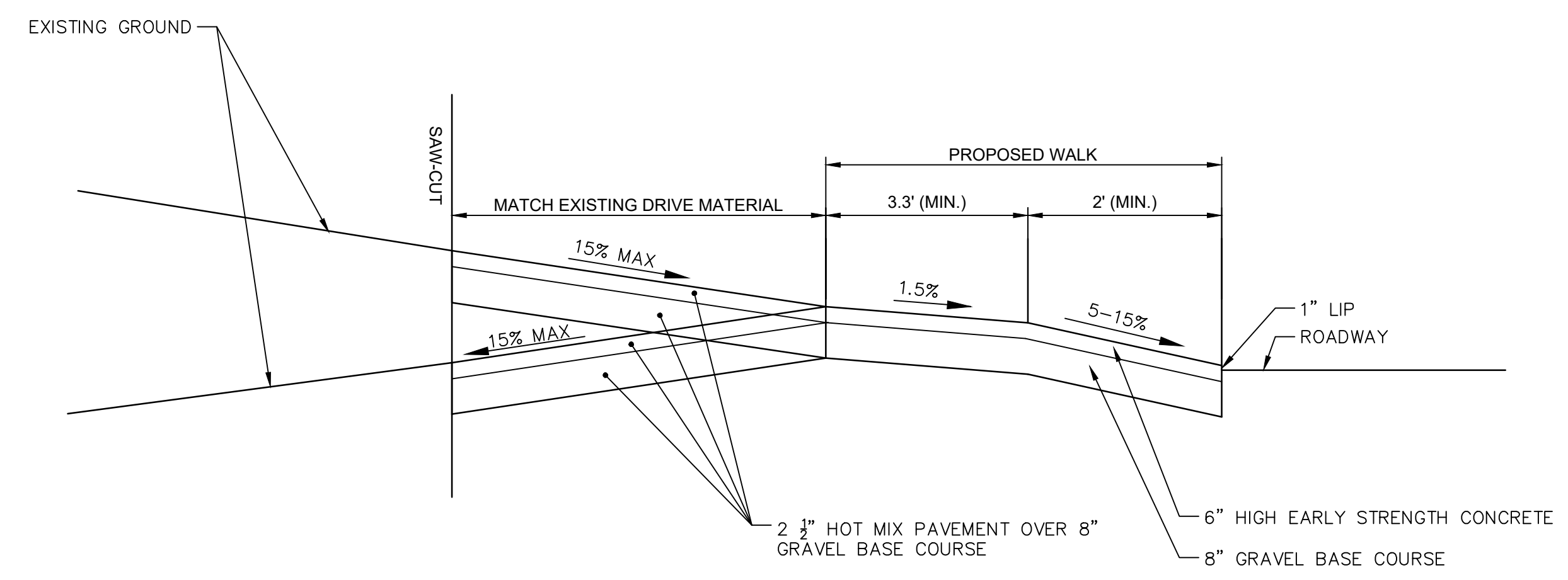
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SITE DETAILS
Sheet No.

DN-07



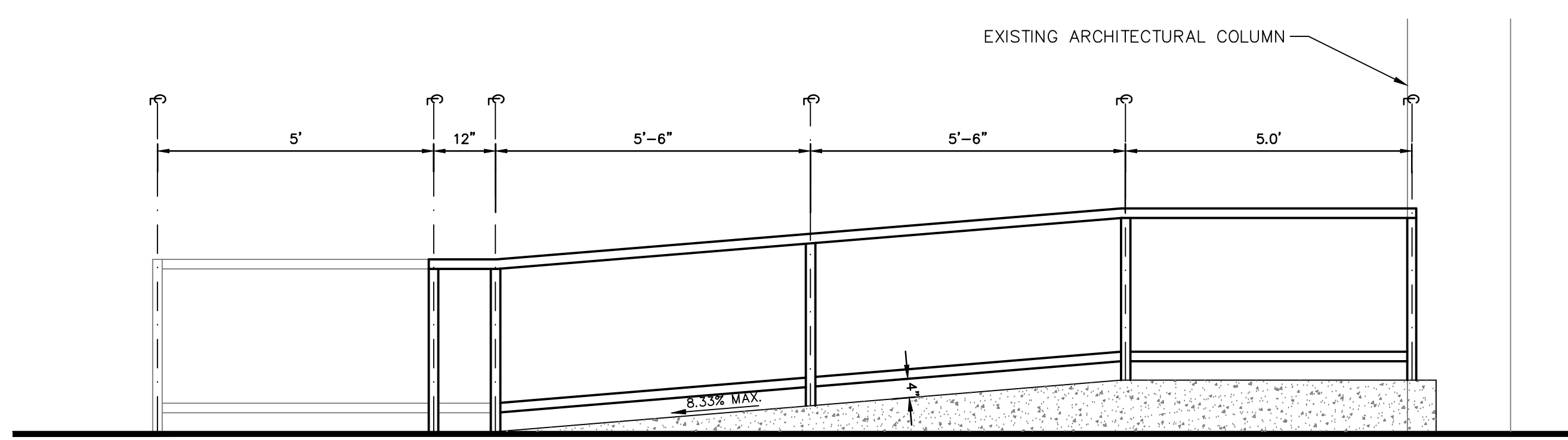
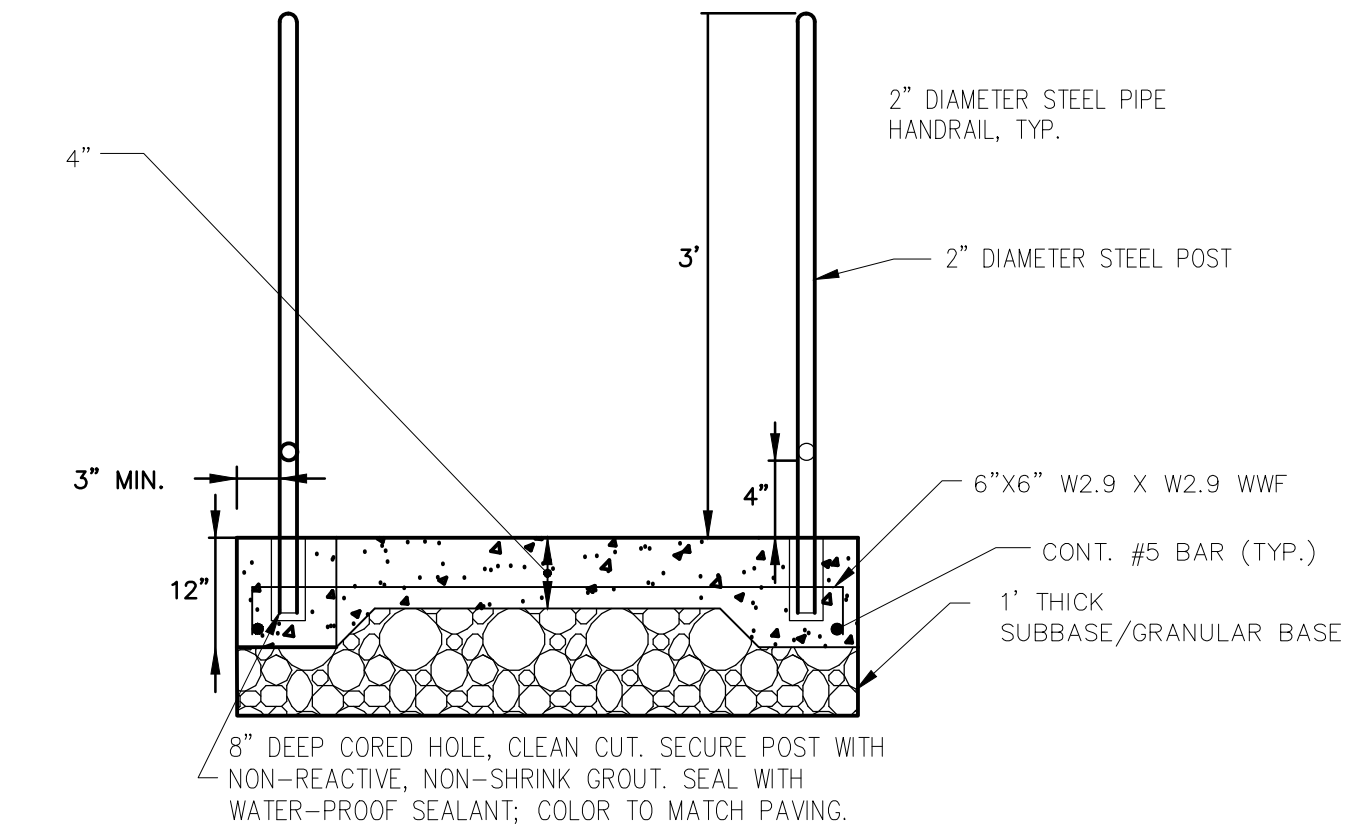
- NOTES:
1. INSTALL DETECTABLE WARNING PANEL ACCORDING TO MASSDOT DWG M/E 107.6.5R
 2. EXISTING GRANITE DRIVEWAY GRANITE CURB TRANSITION STONES SHALL BE REMOVED AND RESET OR REMOVED AND REPLACED AS DIRECTED BY ENGINEER.
 3. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF RAMP WITHIN TOLERANCES GIVEN UNLESS 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.

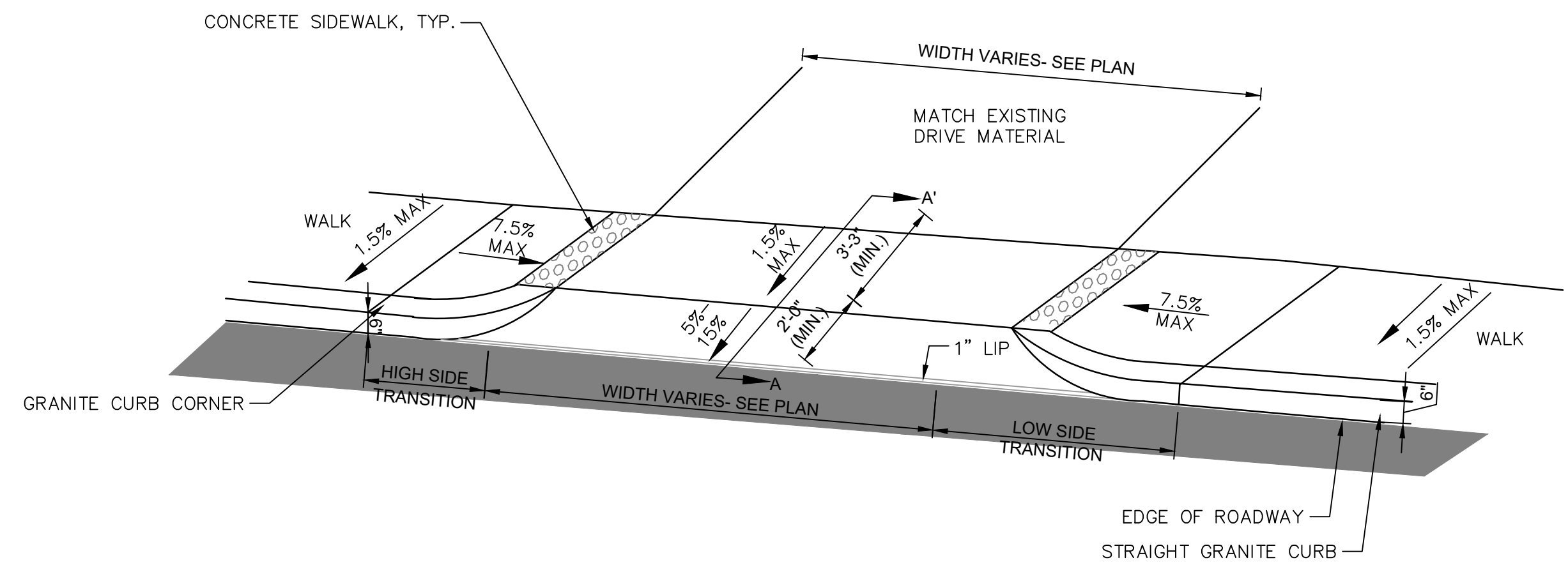


- NOTES:
1. USE 8" GRAVEL BASE COURSE FOR DRIVES WITH NO PAVED SURFACE. USE 6" CEMENT CONCRETE OVER 8" GRAVEL BASE COURSE FOR DRIVES WITH CEMENT CONCRETE.
 2. DRIVEWAYS SHALL BE INSTALLED WITH EITHER A 2' OR 3' RADIUS GRANITE CURB CORNER. SEE LAYOUT PLAN FOR CURB RADII. CONTRACTOR SHALL CONTACT OWNER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

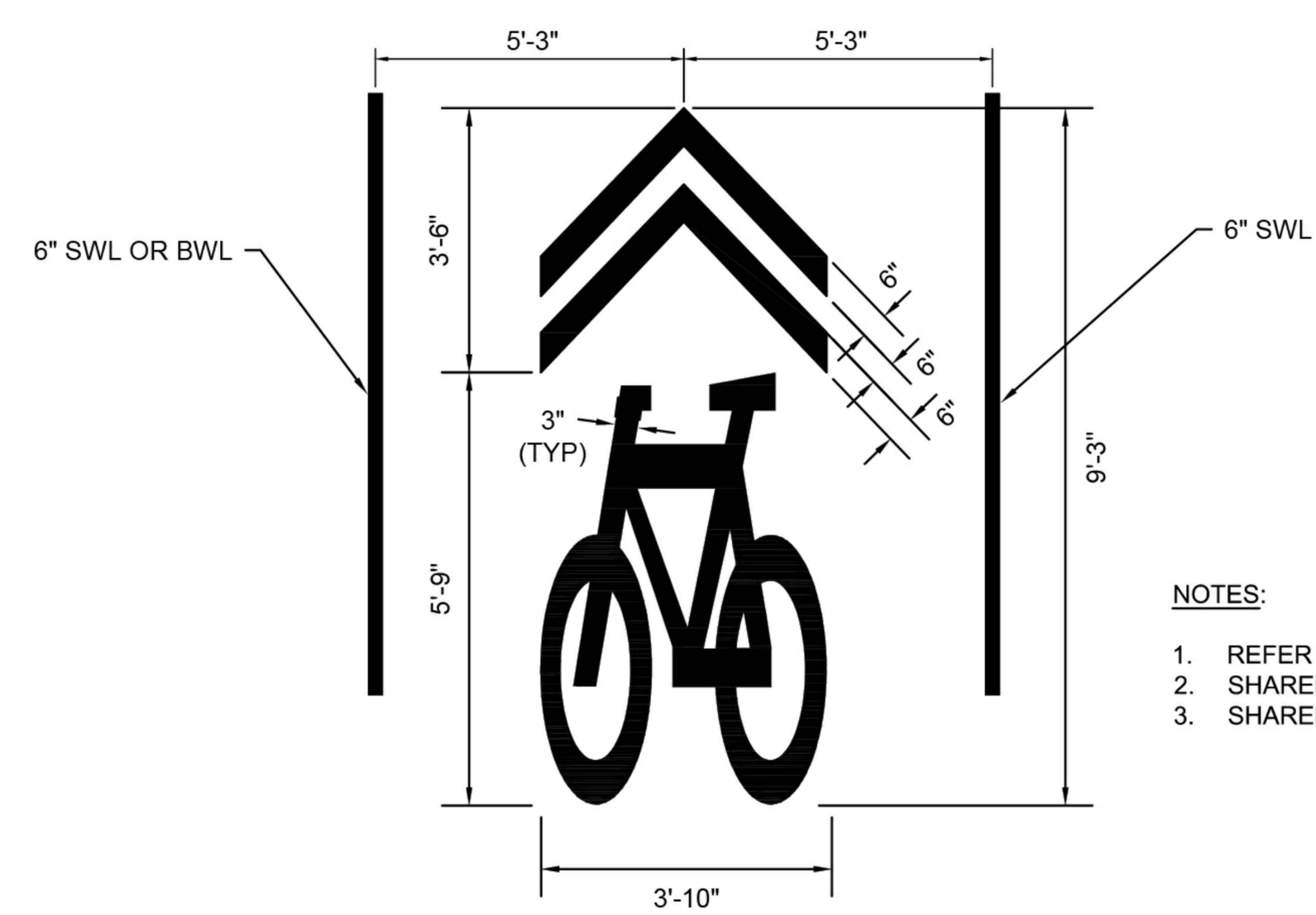
CONCRETE DRIVEWAY APRON CROSS SECTION A-A'
N.T.S.



CONCRETE RAMP AND HANDRAIL
N.T.S.

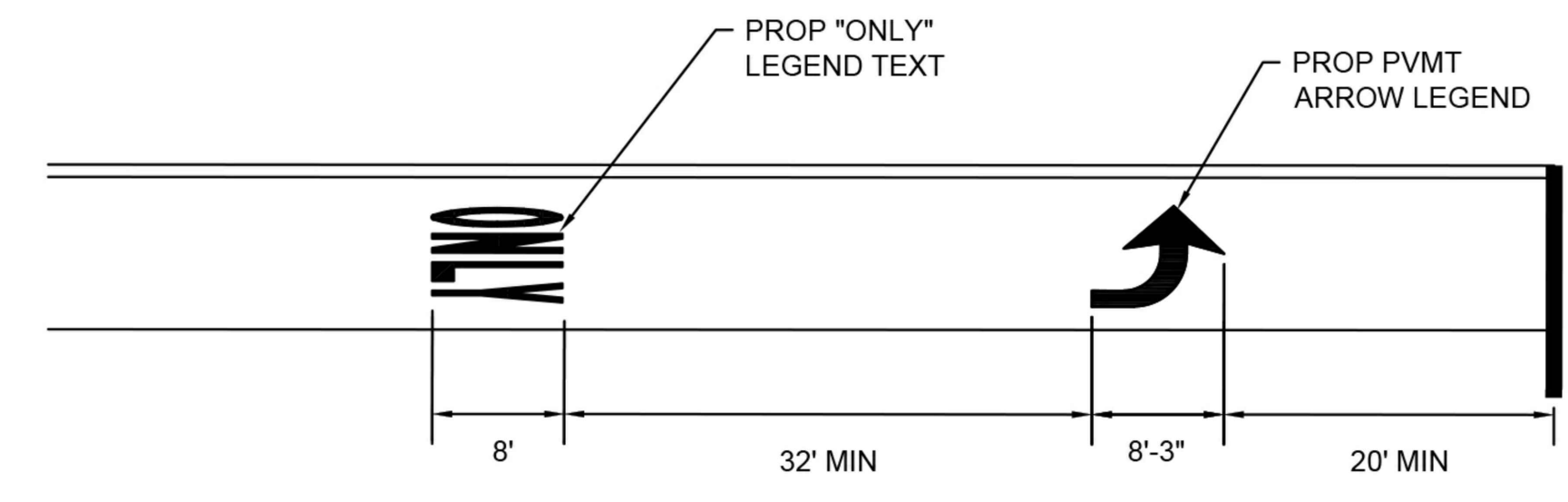


CONCRETE DRIVEWAY APRON WITH RADIUS CURBS
N.T.S.

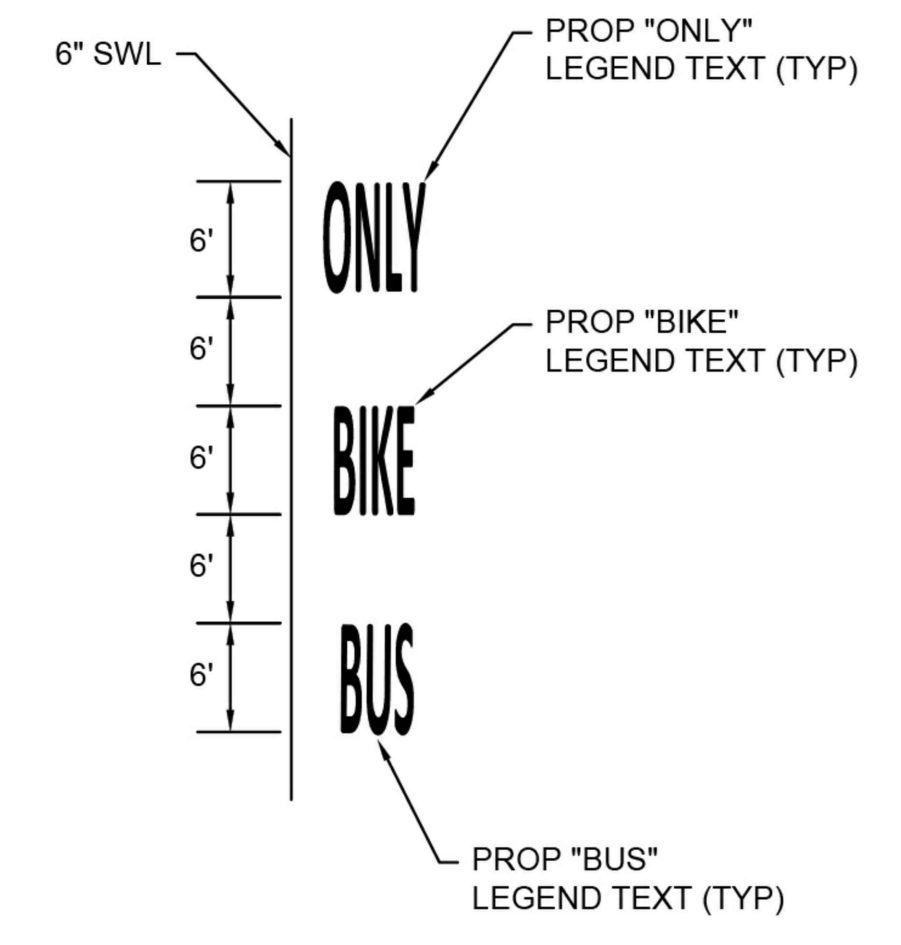


- NOTES:**
1. REFER TO FIGURE 9C-9 IN THE MUTCD FOR MORE DETAIL.
 2. SHARED LANE MARKINGS SHALL BE EPOXY PAINT.
 3. SHARED LANE MARKINGS SHALL BE ONE PIECE.

SHARED LANE PAVEMENT LEGEND DETAIL
NOT TO SCALE

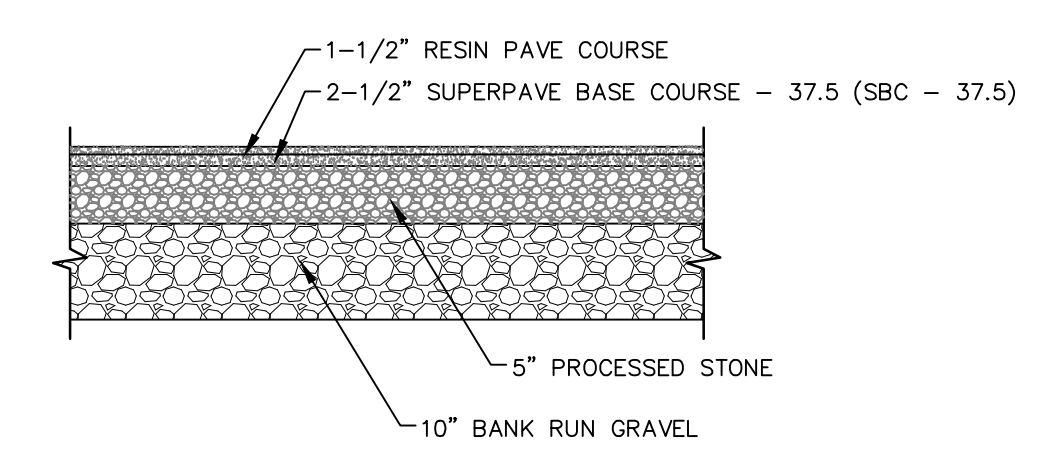
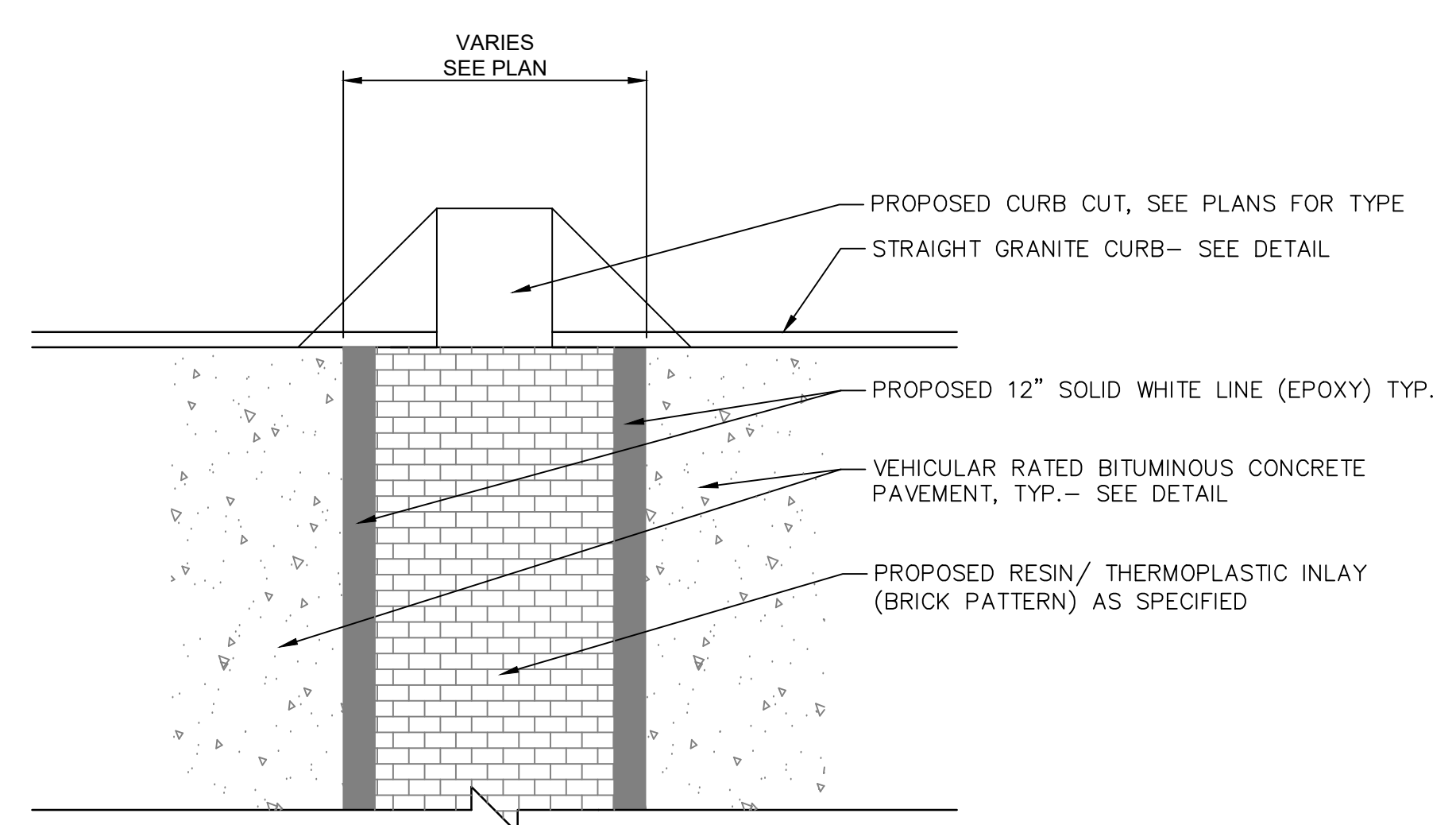


PAVEMENT ARROW AND LEGEND DETAIL
NOT TO SCALE

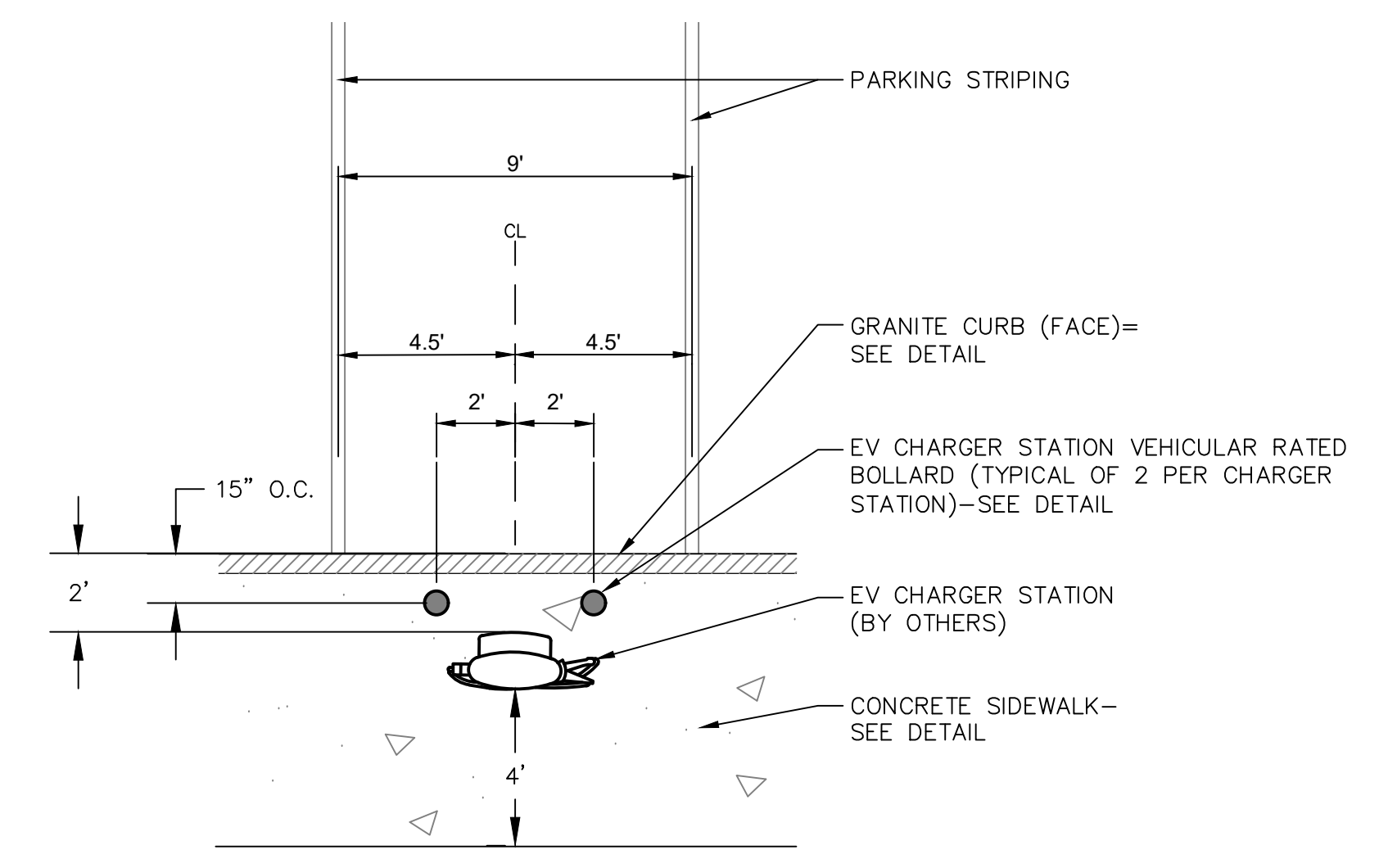


- NOTES:**
1. BUS/BIKE/ONLY PAVEMENT MARKINGS SHOULD BE CENTERED IN THE LANE UNLESS OTHERWISE NOTED.

BUS BIKE ONLY PAVEMENT MARKING AND LEGEND DETAIL
NOT TO SCALE



RESIN CROSS WALK
N.T.S.



EV CHARGING STATION AND BOLLARD LAYOUT
N.T.S.

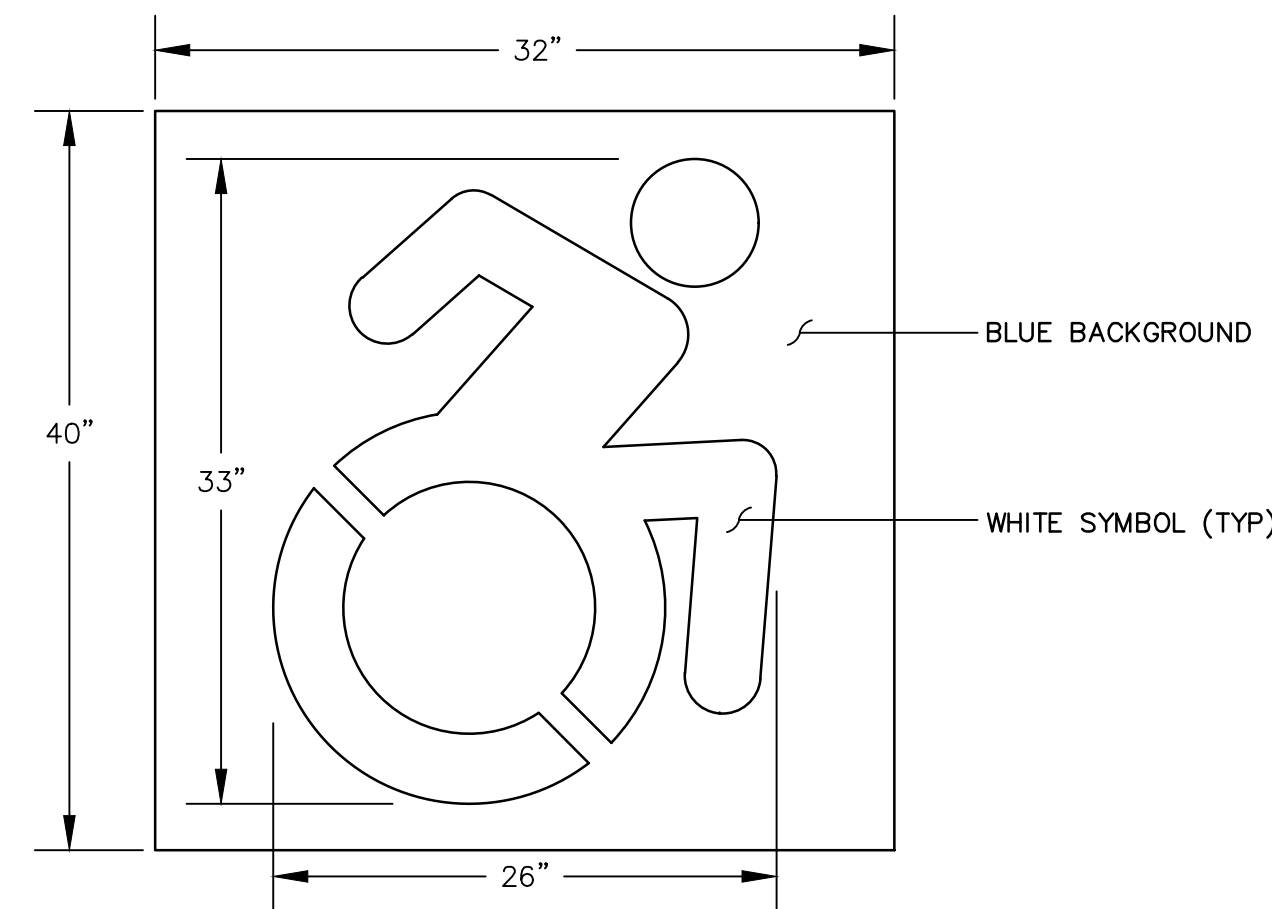
REVISIONS	No.	Date	Desc.

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

Title
SITE DETAILS

Sheet No.

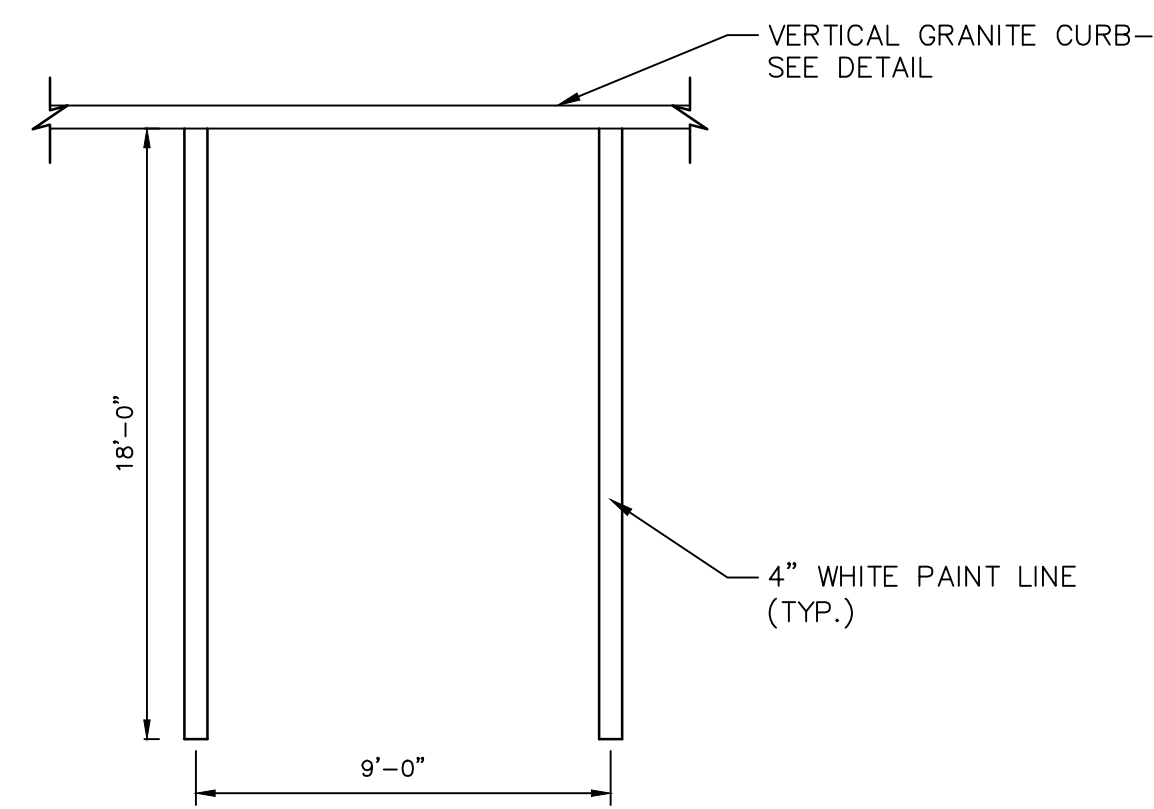
DN-08



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

INTERNATIONAL HANDICAP SYMBOL

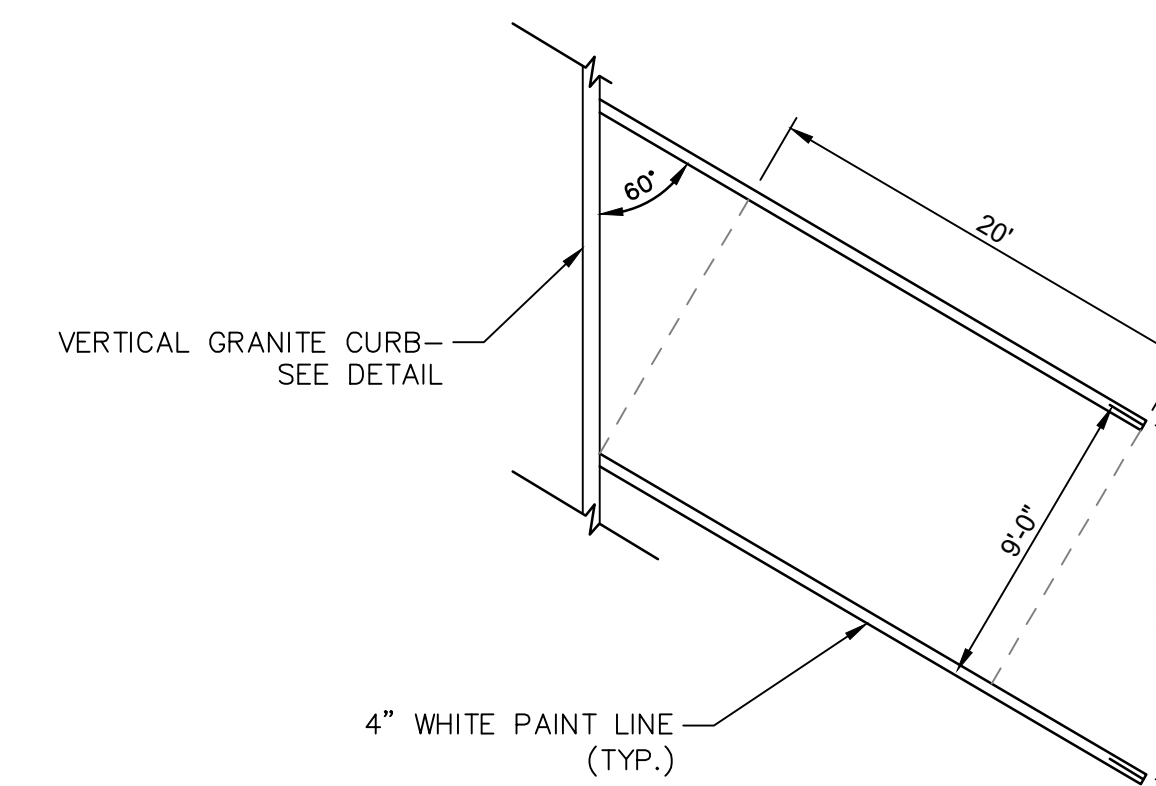
N.T.S.



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

TYPICAL PARKING SPACE DETAIL

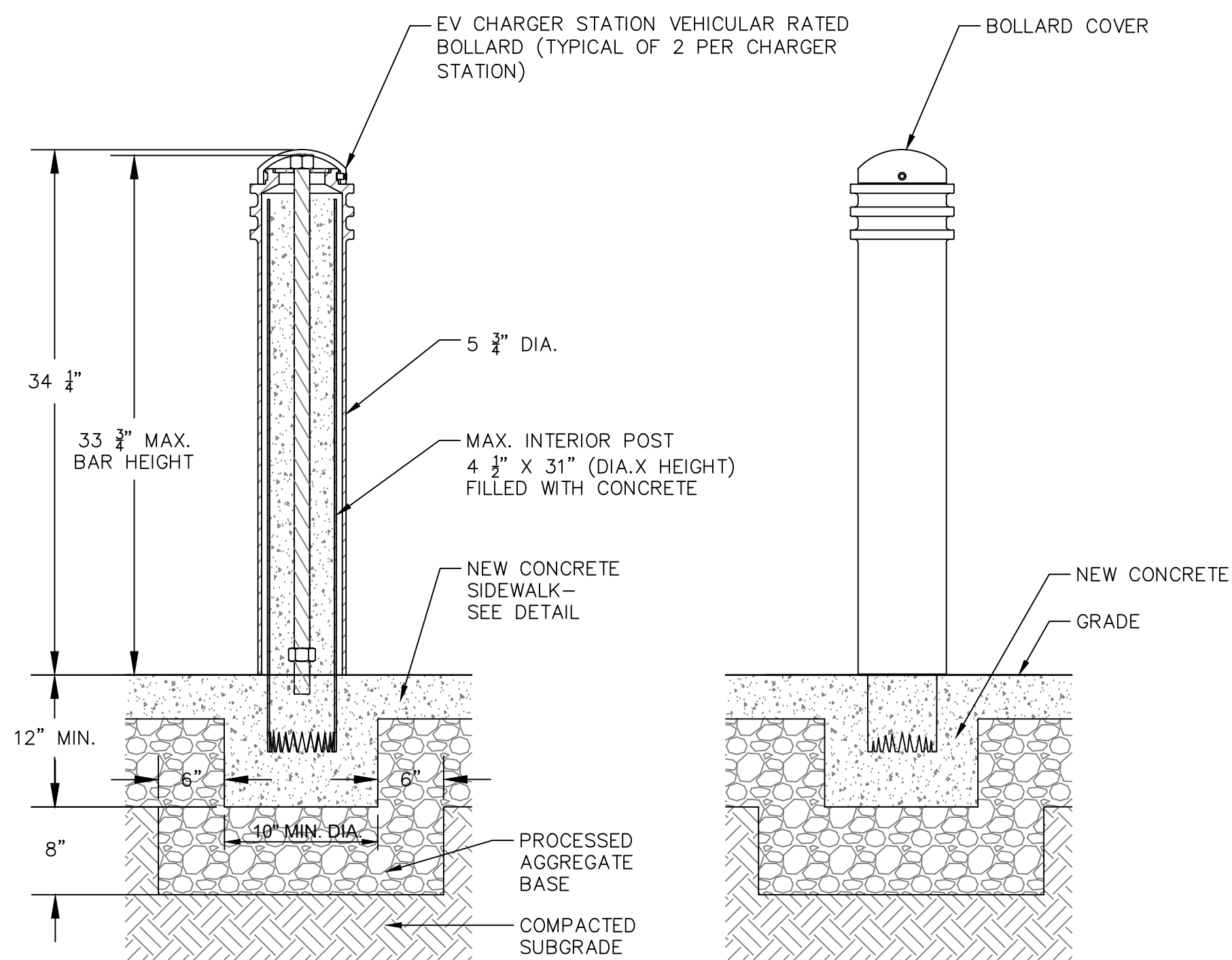
N.T.S.



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.



NOTE:
1. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

EV CHARGER STATION VEHICULAR RATED BOLLARD

N.T.S.
MANUFACTURER: RELIANCE FOUNDRY (OR APPROVED EQUAL)
PHONE: 1-877-789-3245
WEBSITE: WWW.RELIANCE-FOUNDRY.COM
PRODUCTS: R-7576 DECORATIVE BOLLARD COVER (COLOR: BLACK), ASTM C40 BOLLARD



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.

REVISIONS	Desc.
No.	Date

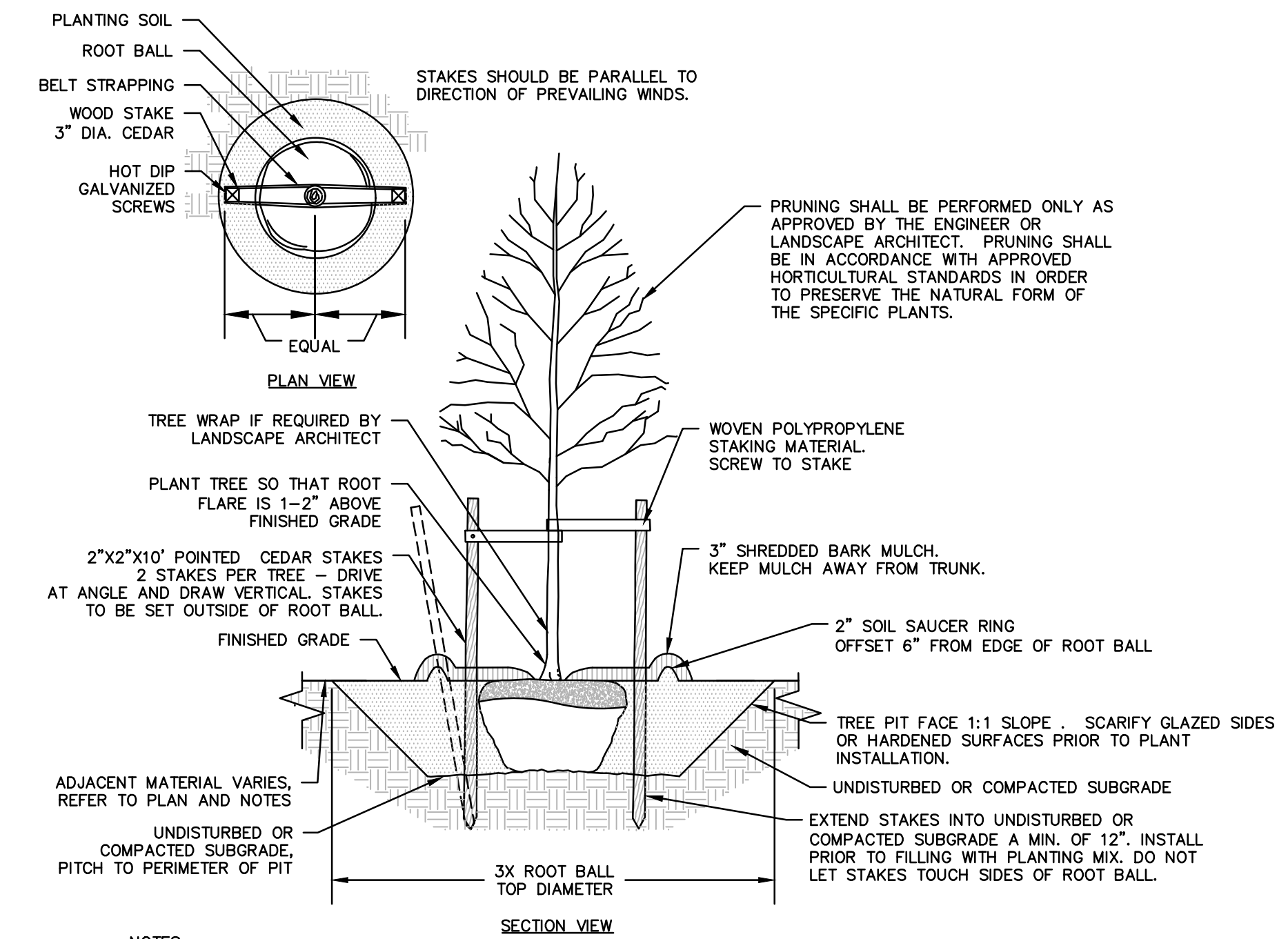
Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	SEPTEMBER, 2021
CAD File:	DN200147801

Title

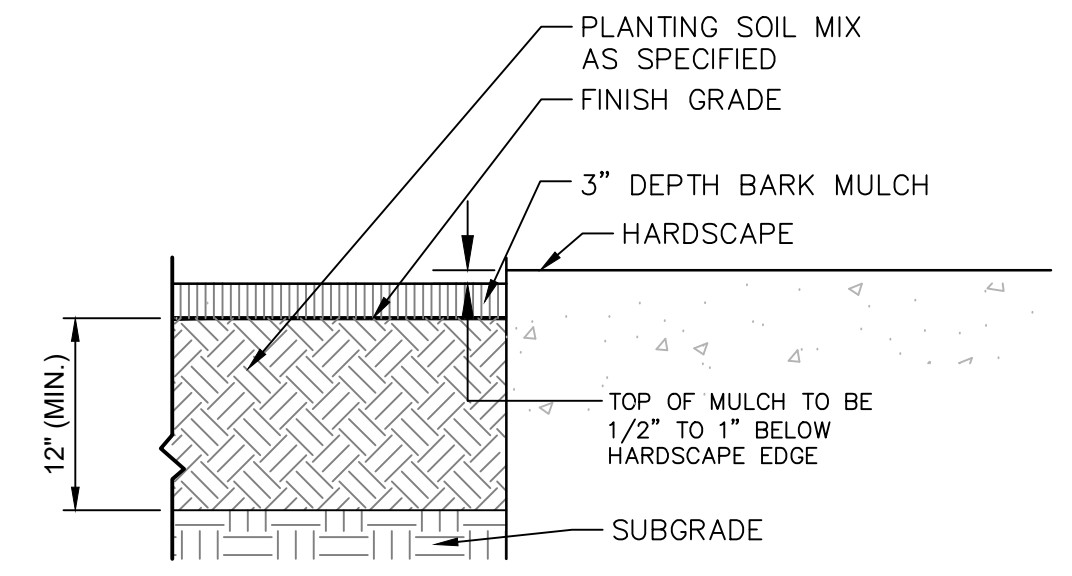
SITE DETAILS

Sheet No.

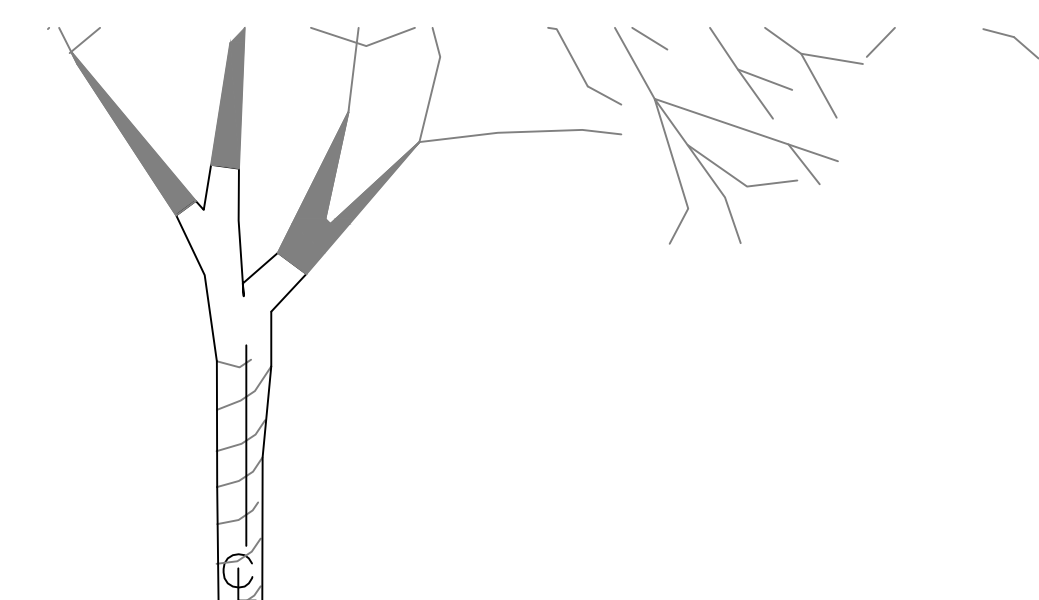
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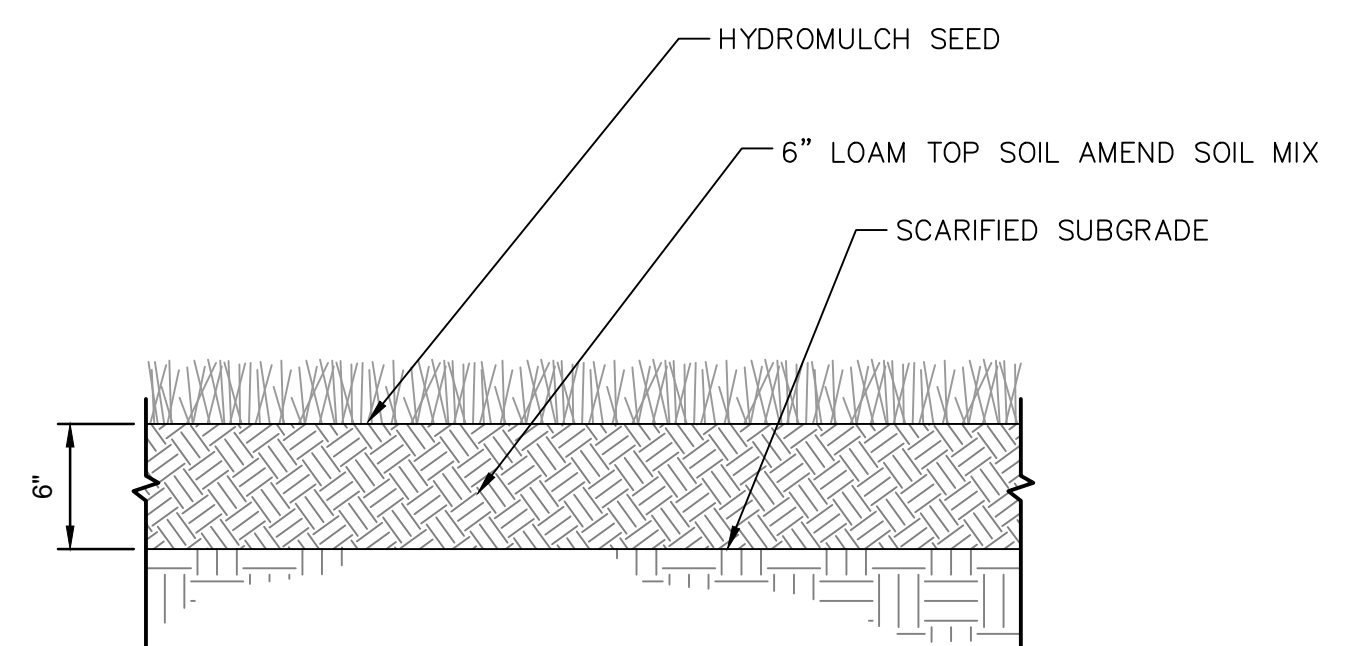
- NOTES:**
1. STAKING FOR TREES ON 4:1 SLOPES OR LESS THAN 3" CALIPER TO BE PERFORMED AT CONTRACTOR'S DISCRETION.
 2. WOVEN POLYPROPYLENE STAKING MATERIAL SHALL BE DEEPROOT ARBORTIE (GREEN) OR APPROVED EQUIVALENT. MATERIAL SHALL BE LOOPED AROUND TREE THROUGH EACH OTHER, TWISTED, AND SECURED TO THE STAKE. 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.



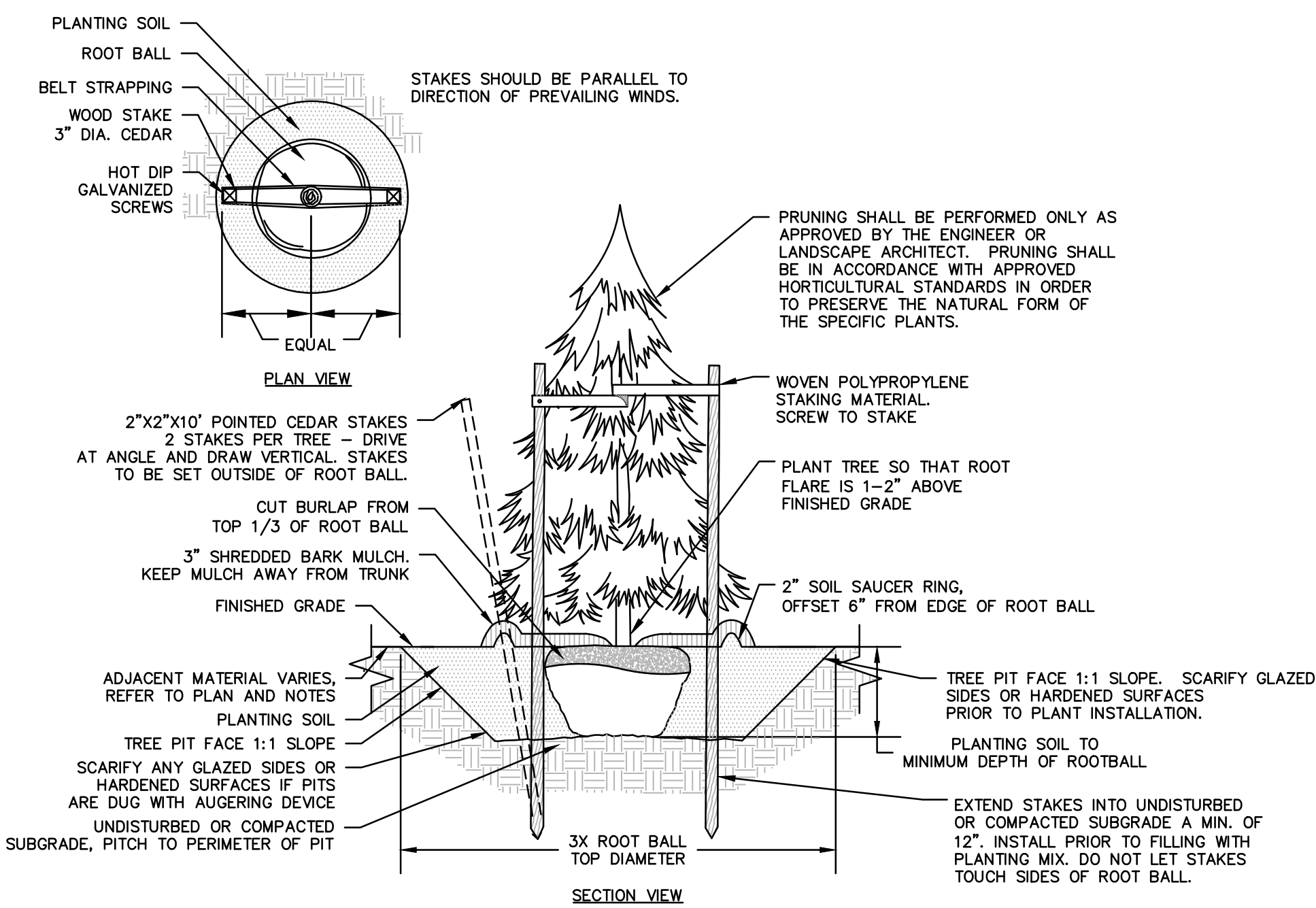
MULCH PLANT BED
N.T.S.



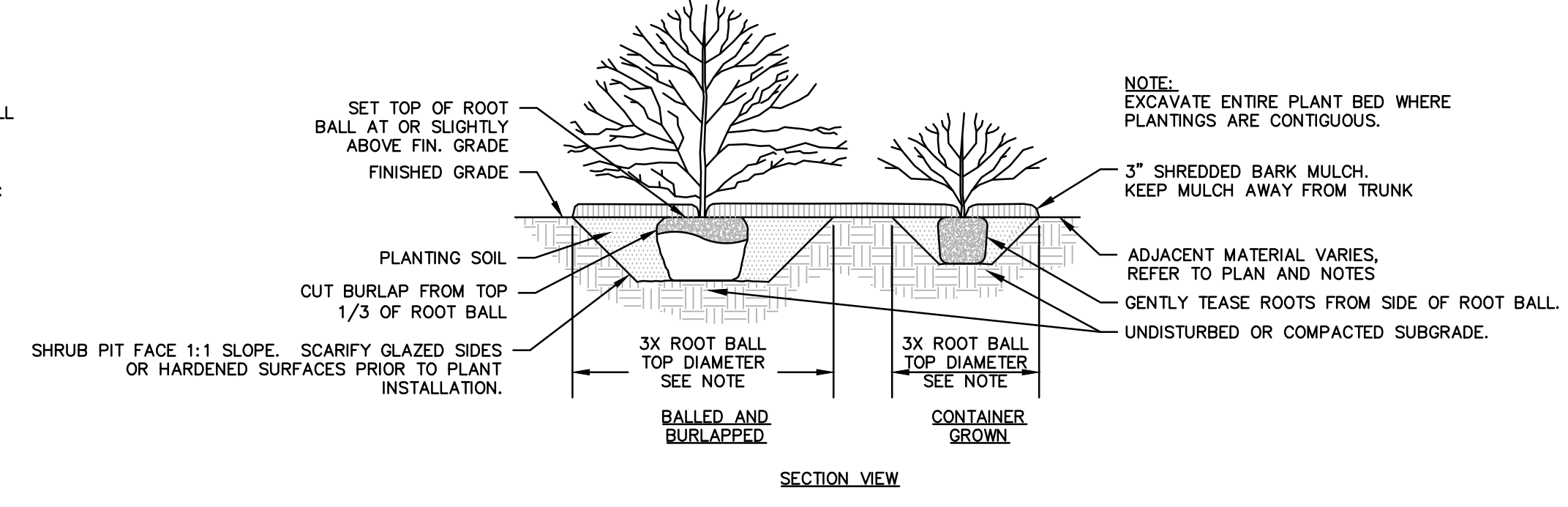
TREE GRATE
N.T.S.



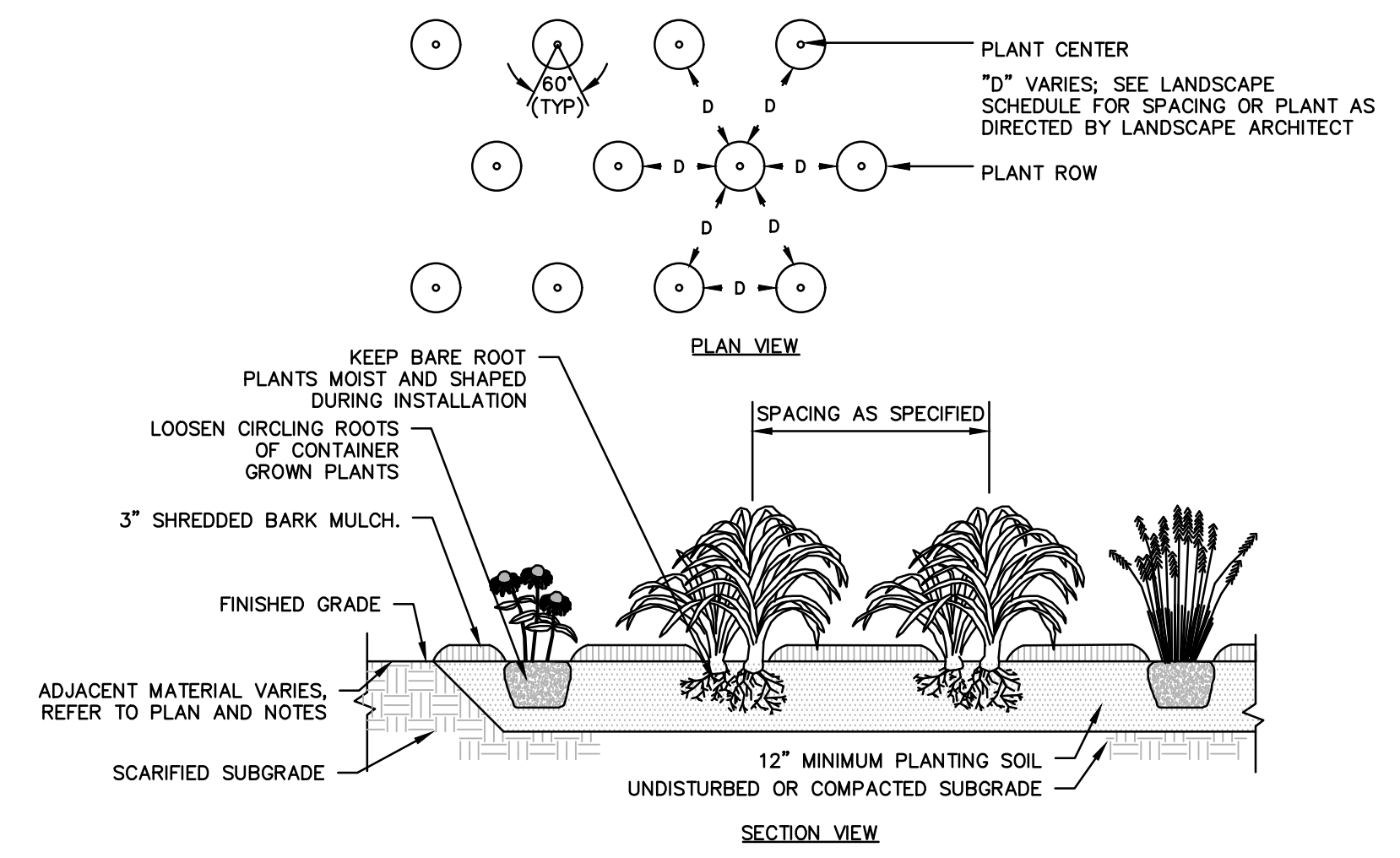
LOAM AND SEED, TYP.
N.T.S.



- 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 ARBORTIE (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.

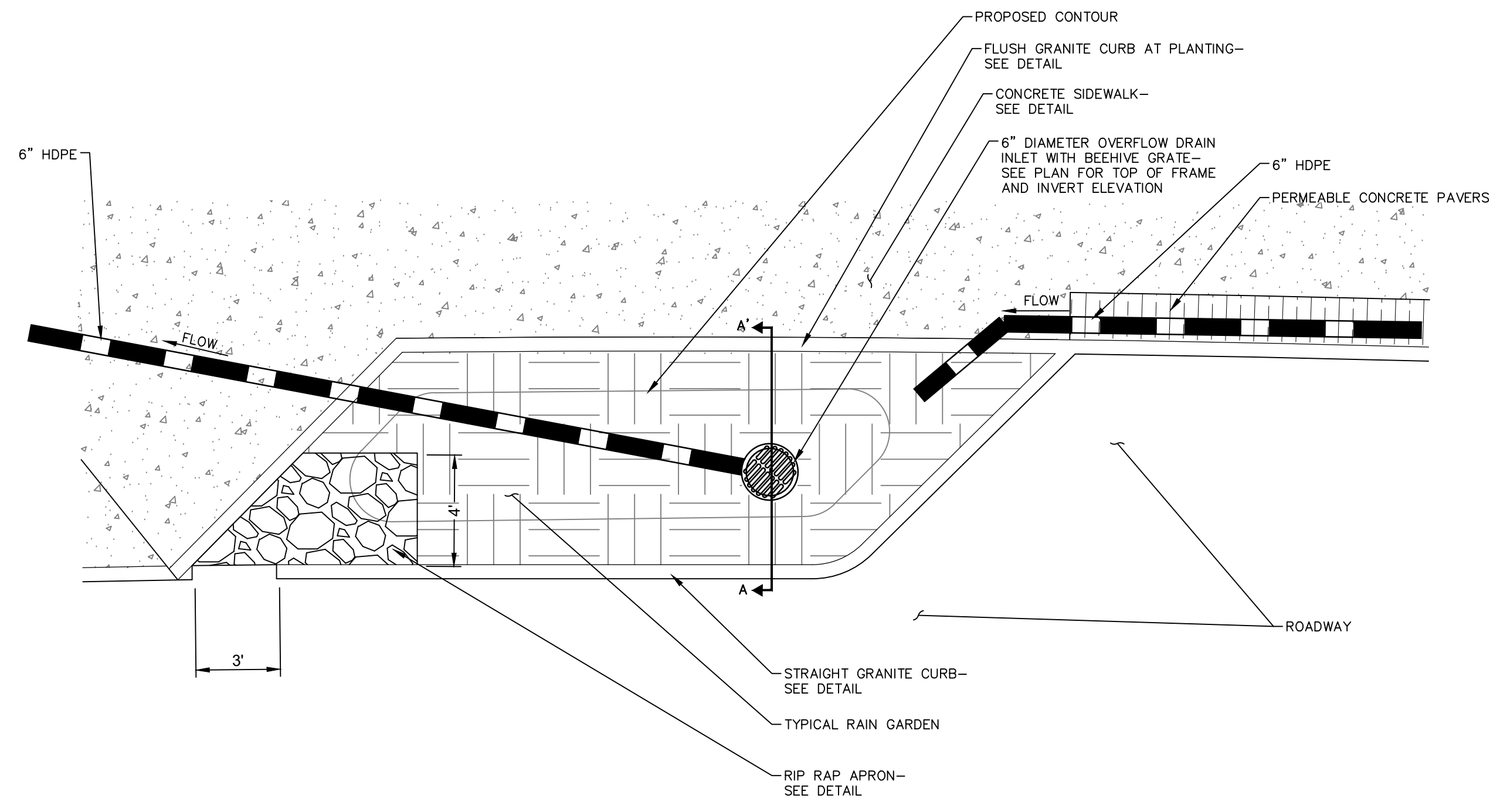


SHRUB PLANTING, TYP.
N.T.S.



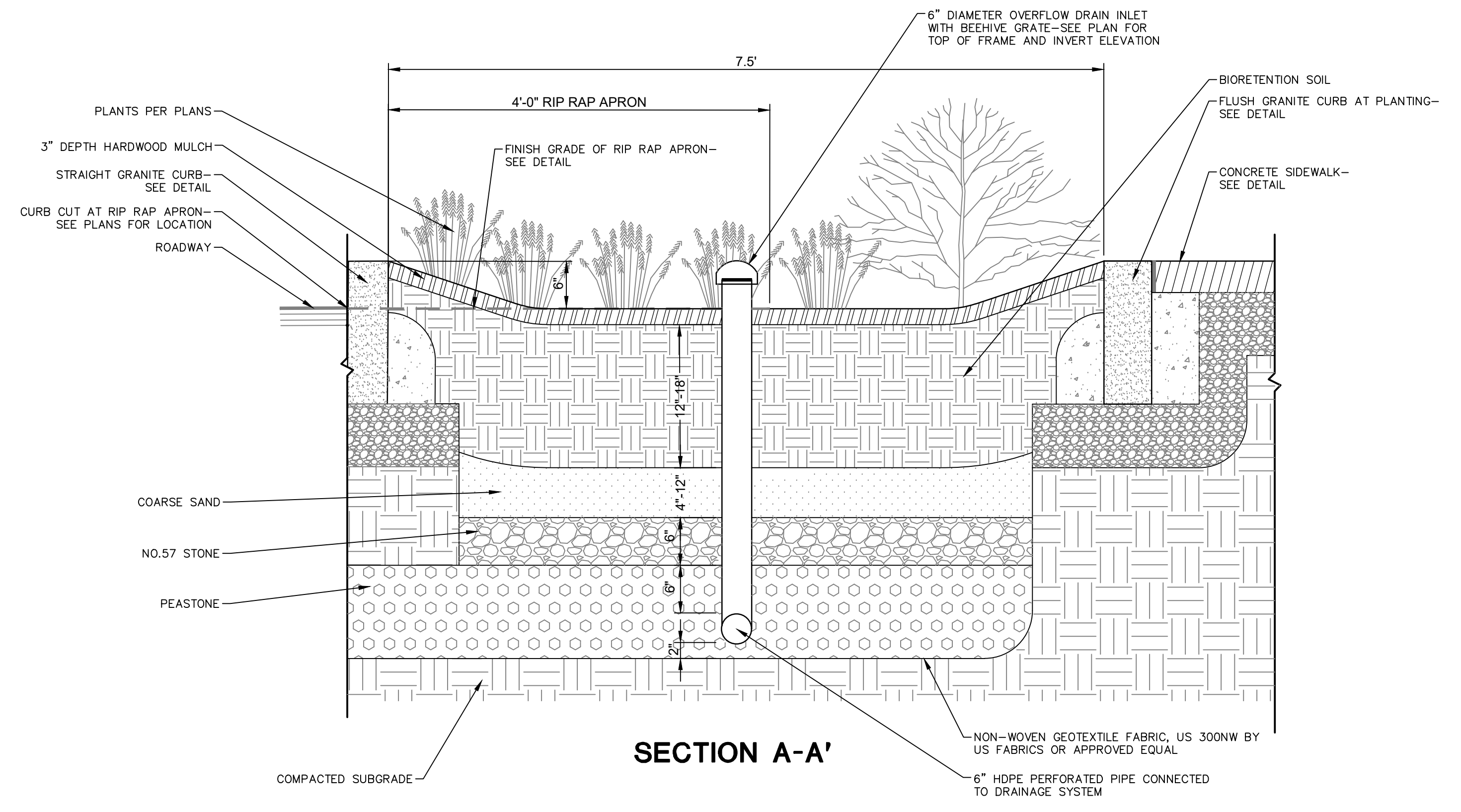
GROUNDCOVER/PERENNIAL PLANTING
N.T.S.

7/20/2021, KAREED, \\BLCOMPANIES\COMPS\PROJ\02021\MA001\481\DWG\LANDSCAPE\LANDSCAPE.DWG, 24:10

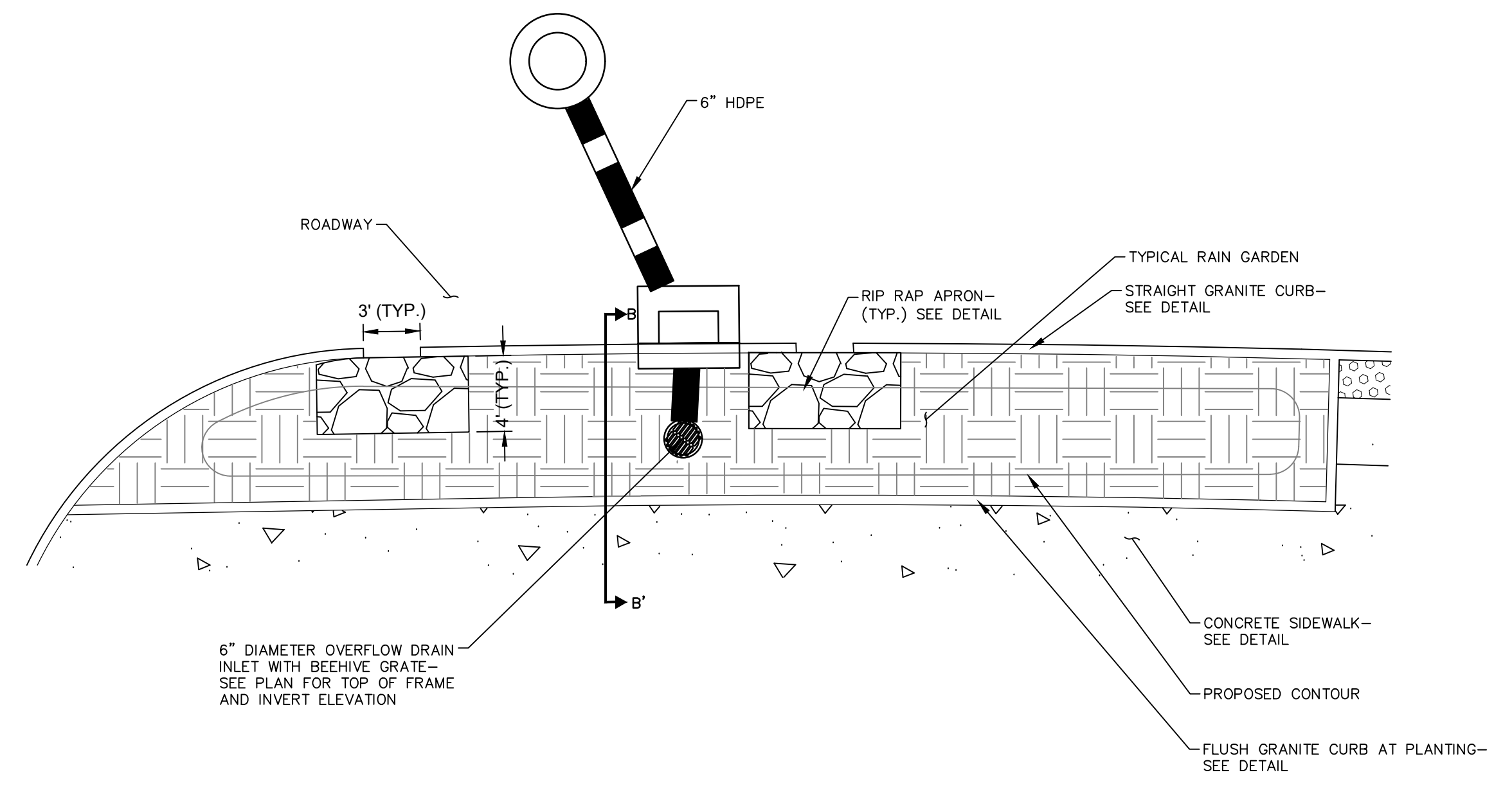


TYPICAL RAIN GARDEN DETAIL -TYPE A

N.T.S.

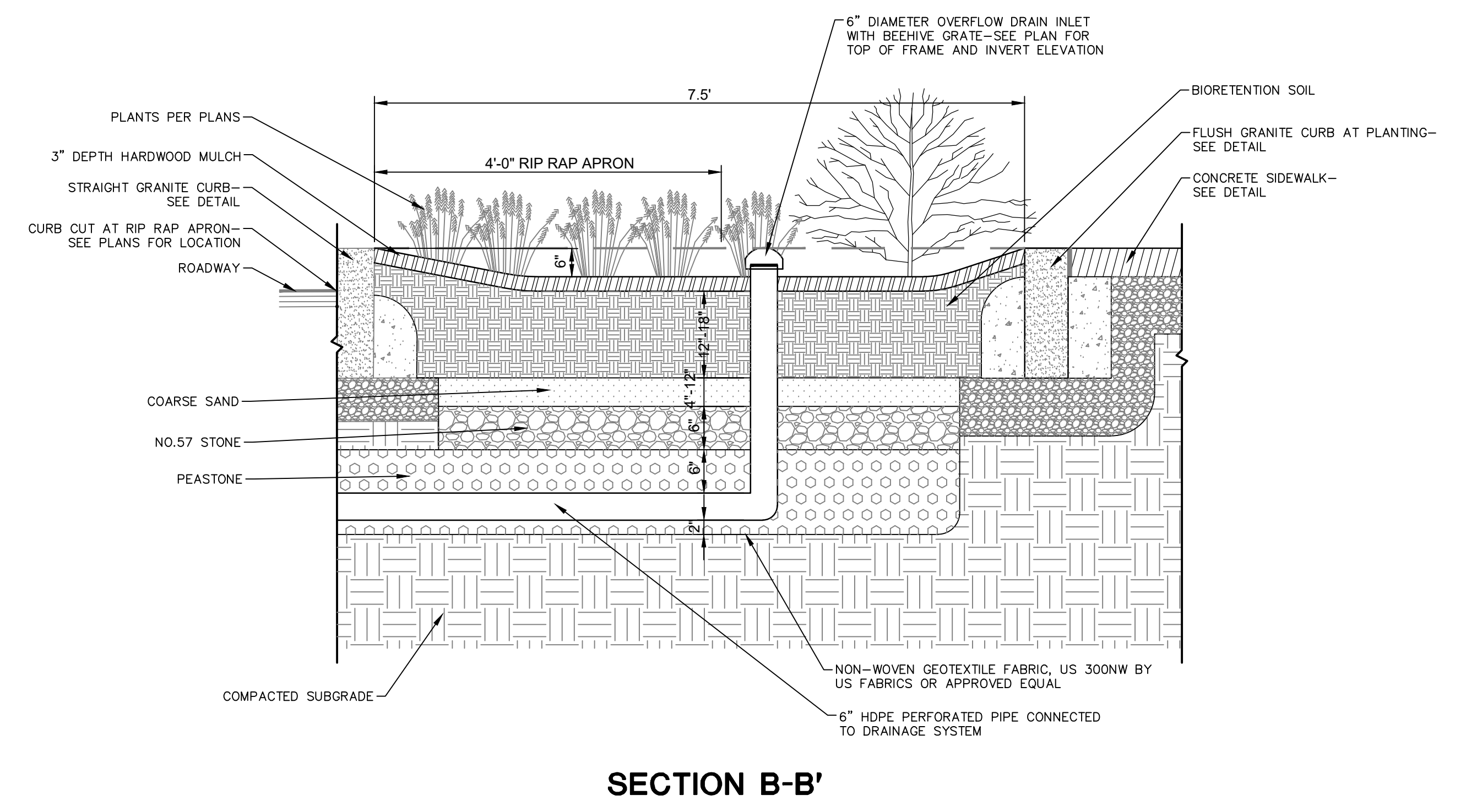


SECTION A-A'

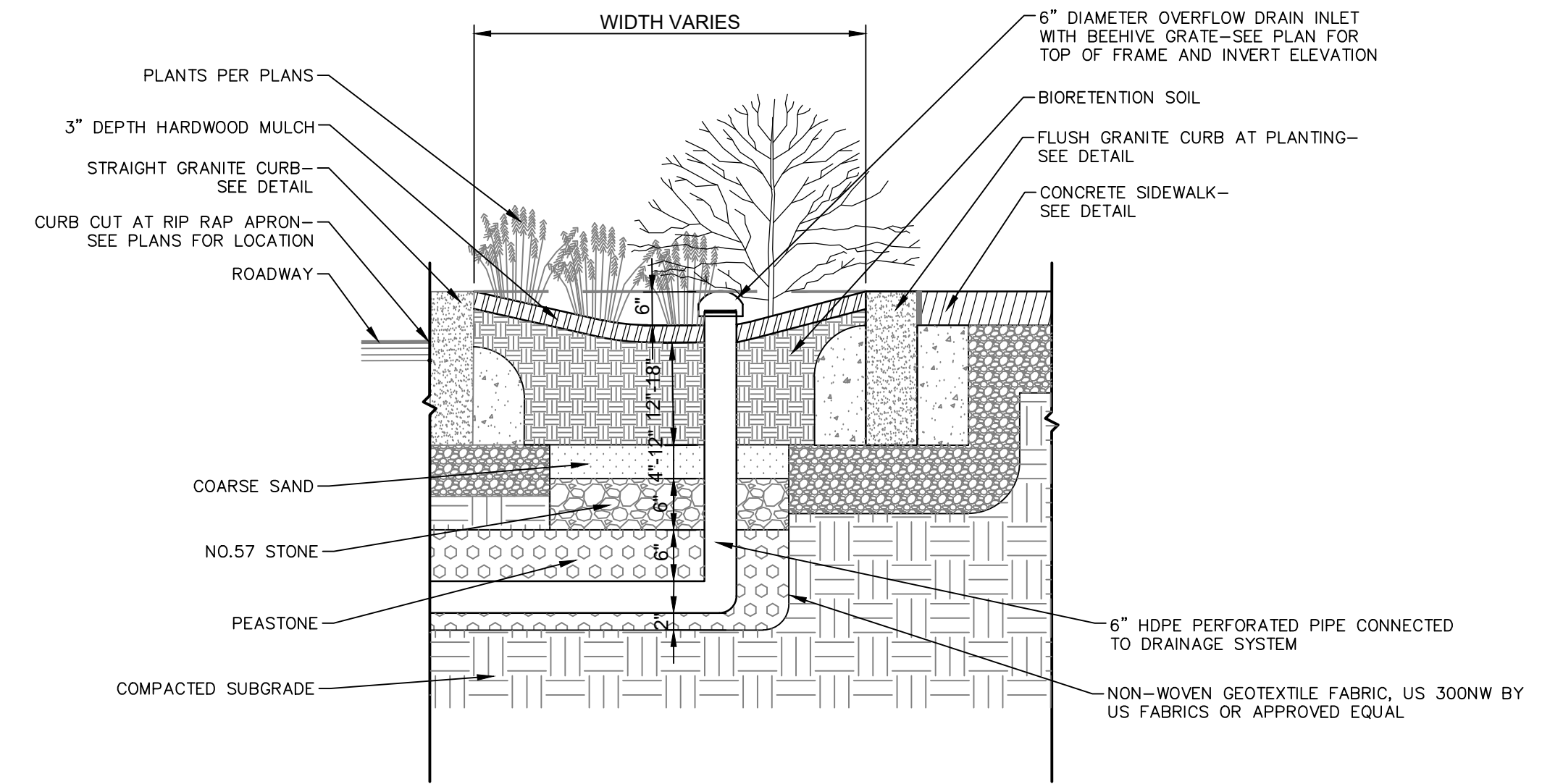
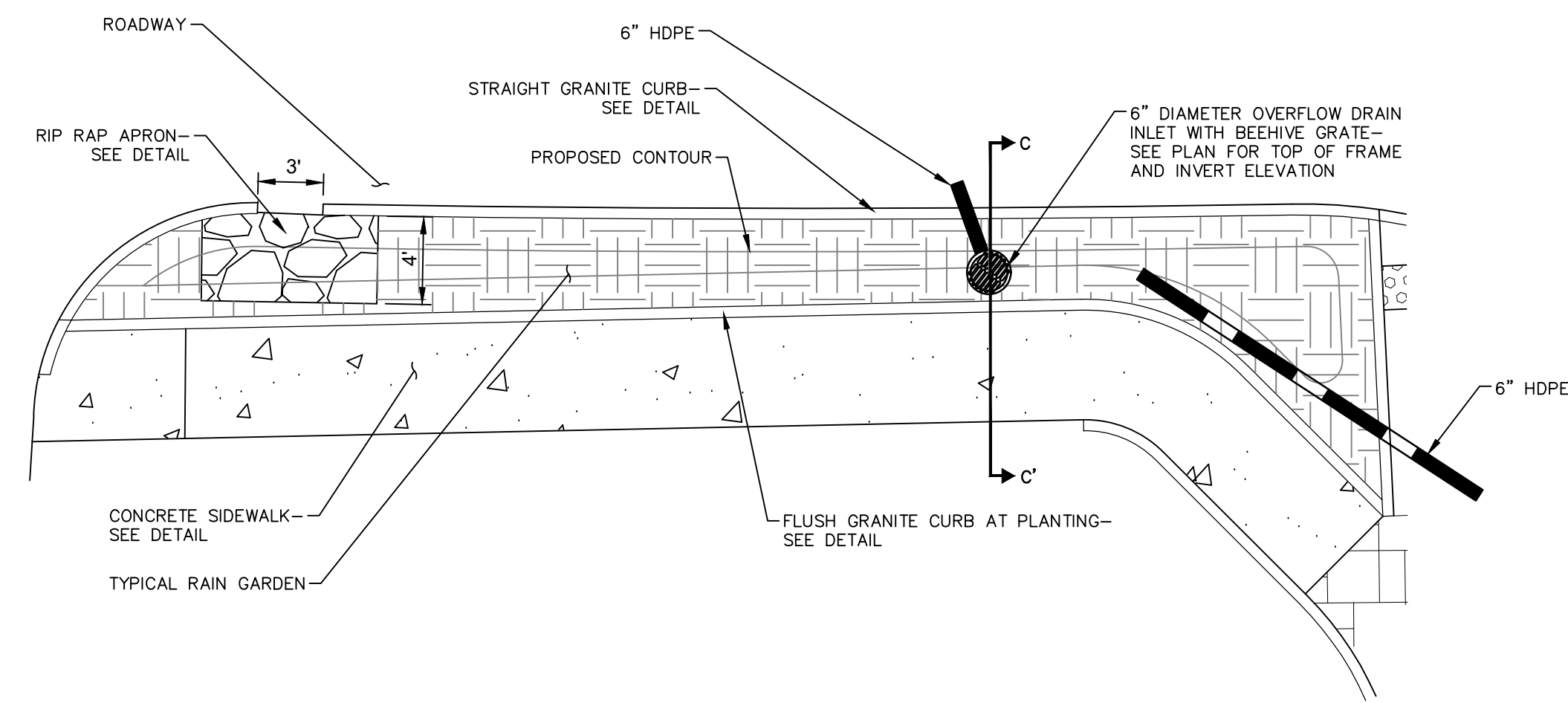


TYPICAL RAIN GARDEN DETAIL -TYPE B

N.T.S.



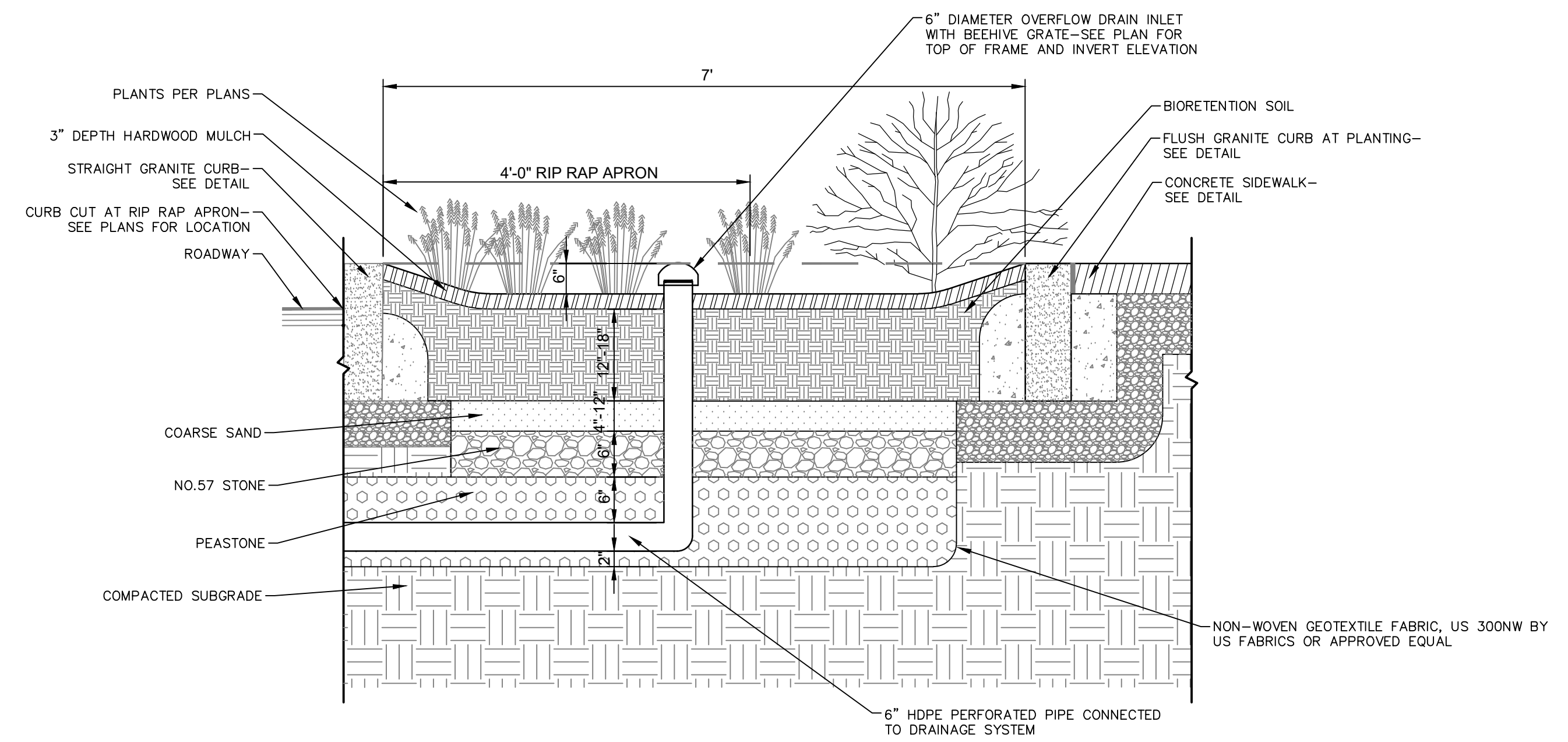
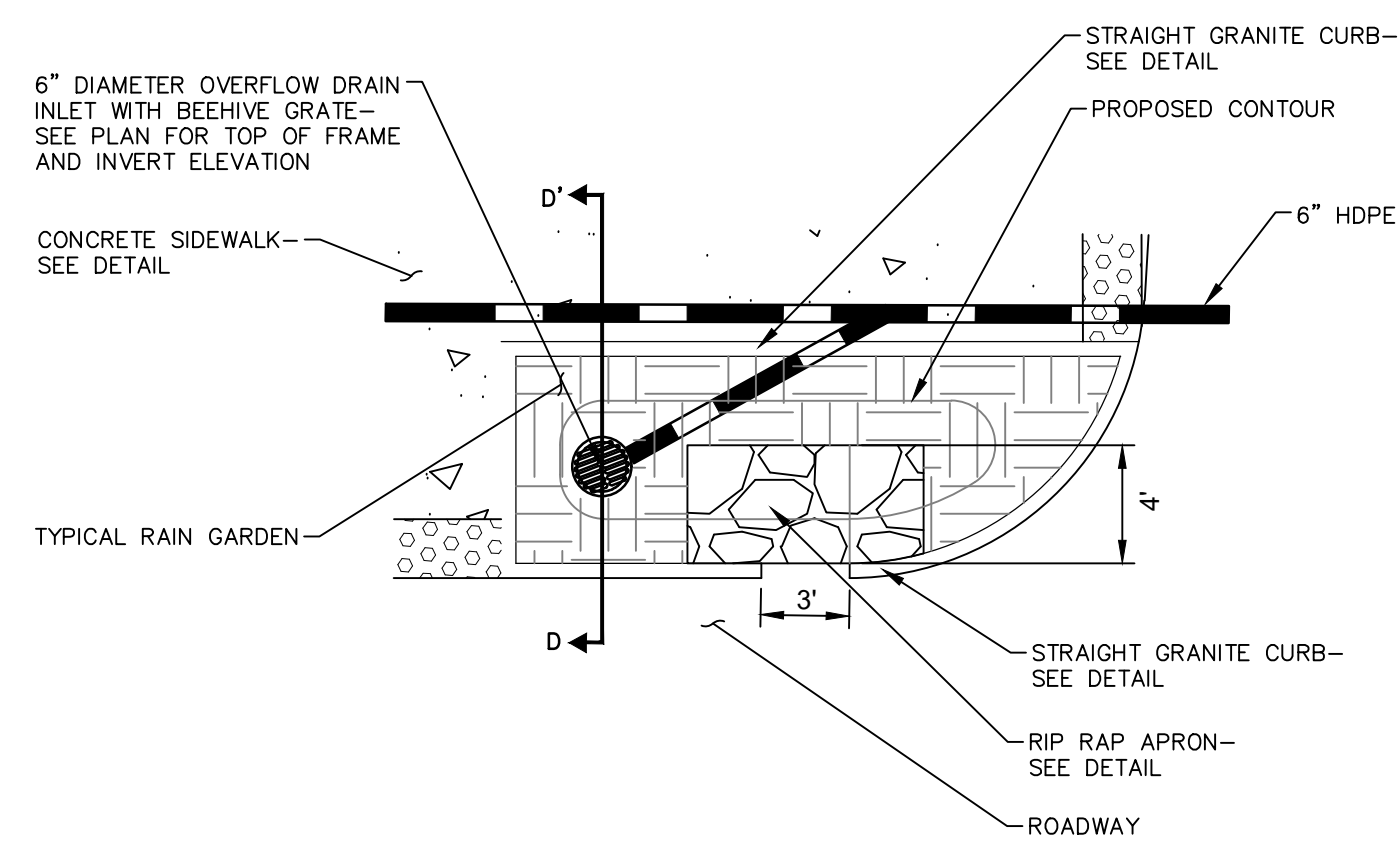
SECTION B-B'



SECTION C-C'

TYPICAL RAIN GARDEN DETAIL -TYPE C

N.T.S.



SECTION D-D'

TYPICAL RAIN GARDEN DETAIL -TYPE D

N.T.S.

REVISIONS	No.	Date	Desc.

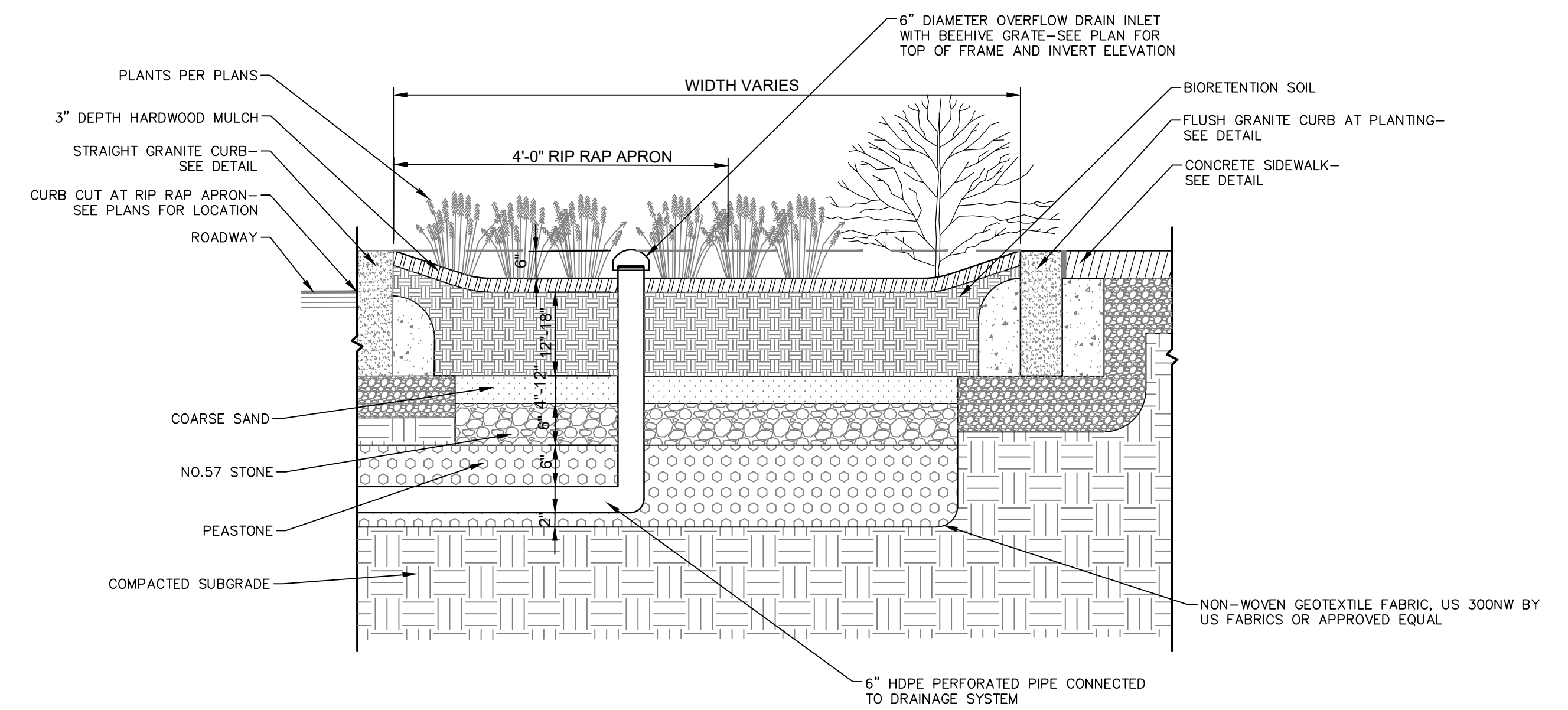
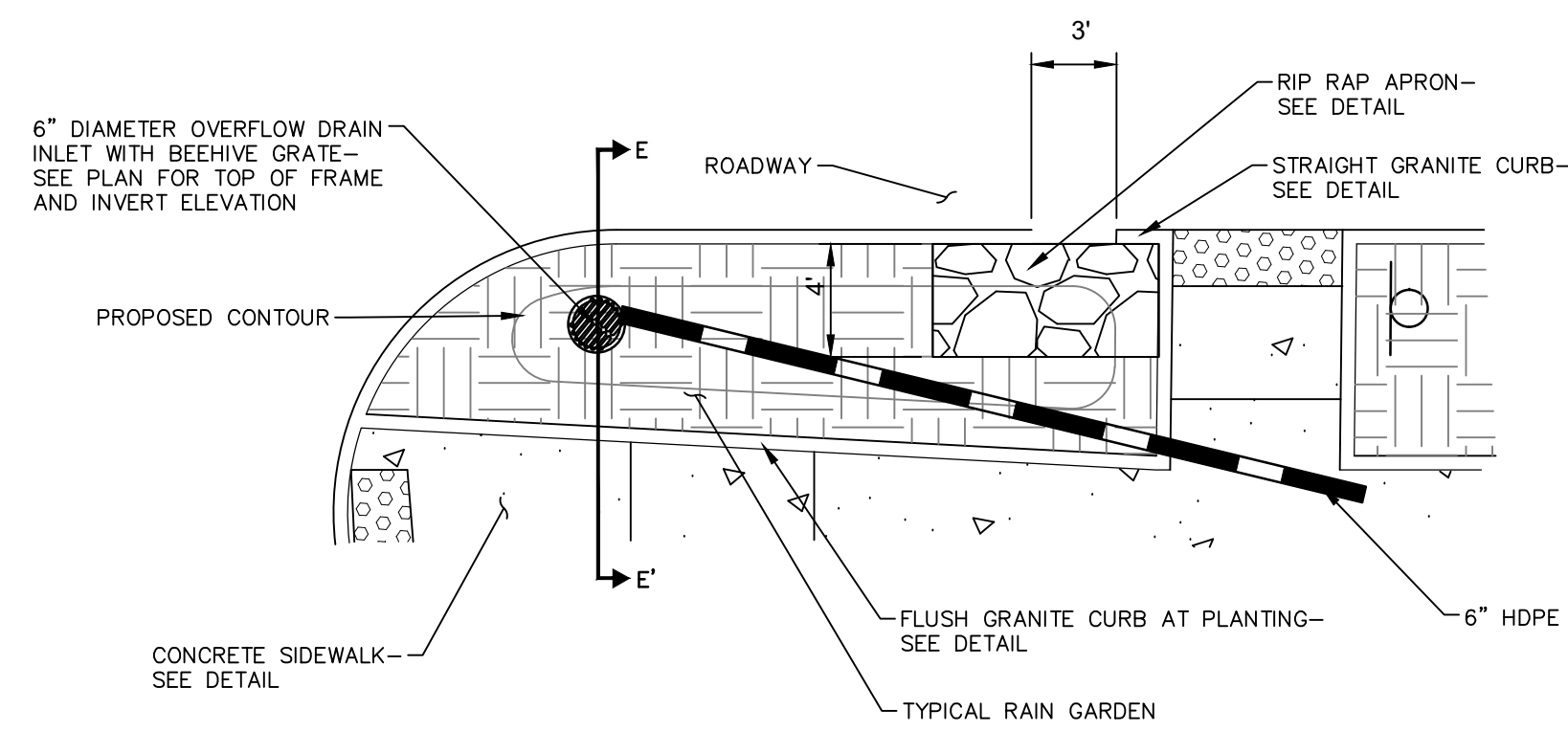
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Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	SEPTEMBER, 2021
CAD File:	DN200147801

SITE LANDSCAPE DETAILS

Sheet No.

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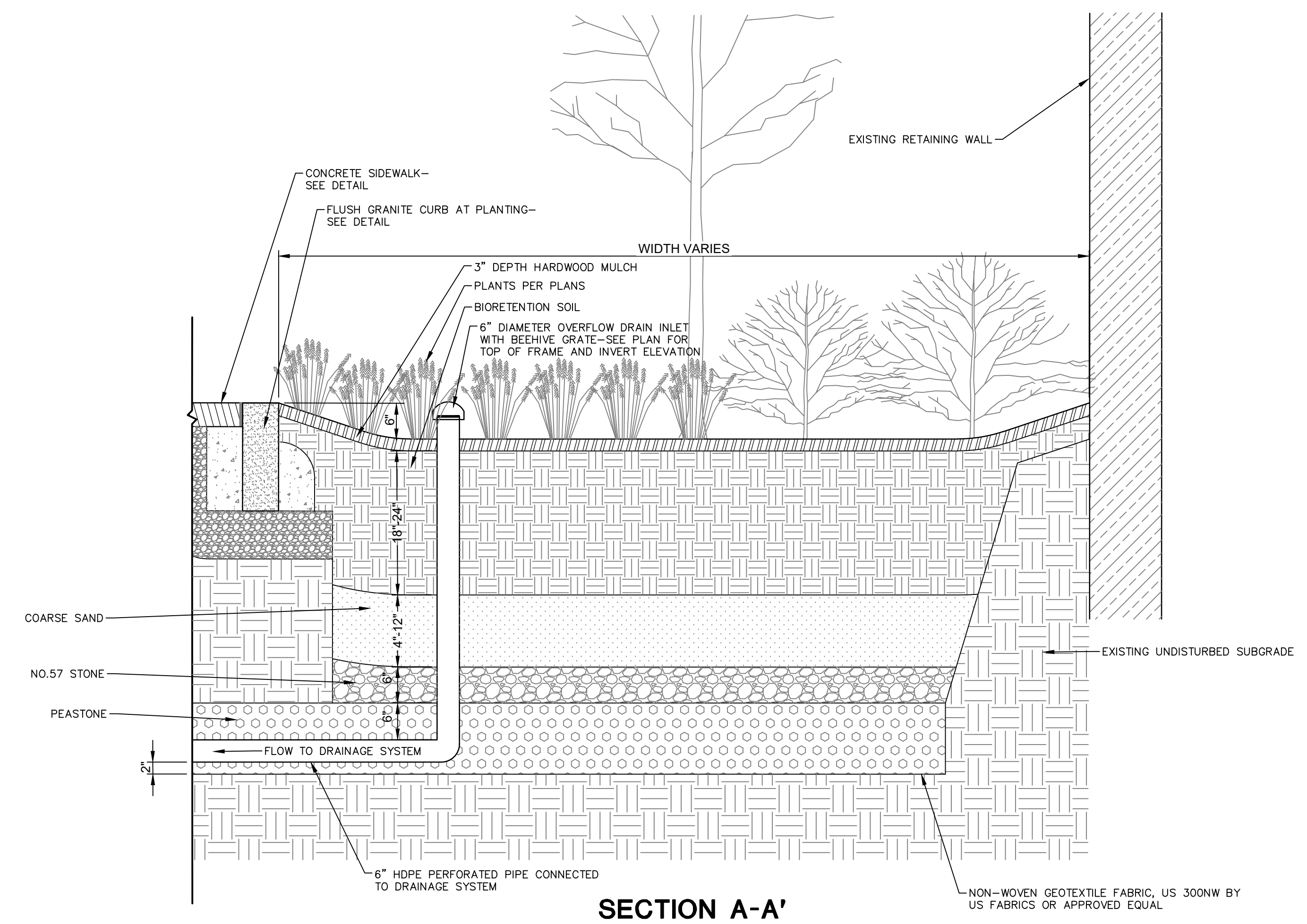
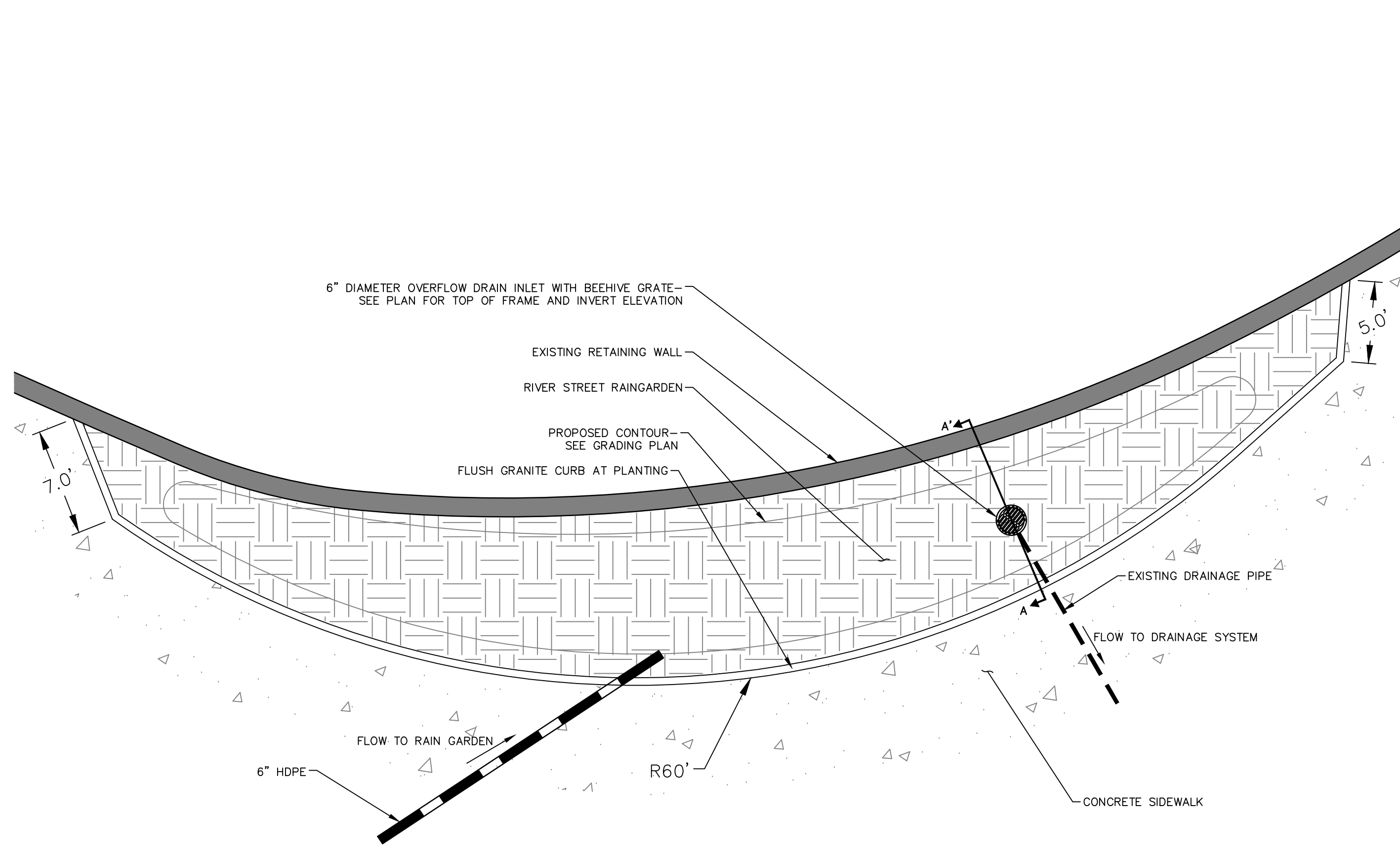
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SECTION E-E'

TYPICAL RAIN GARDEN DETAIL -TYPE E

N.T.S.



SECTION A-A'

RIVER STREET RAIN GARDEN DETAIL

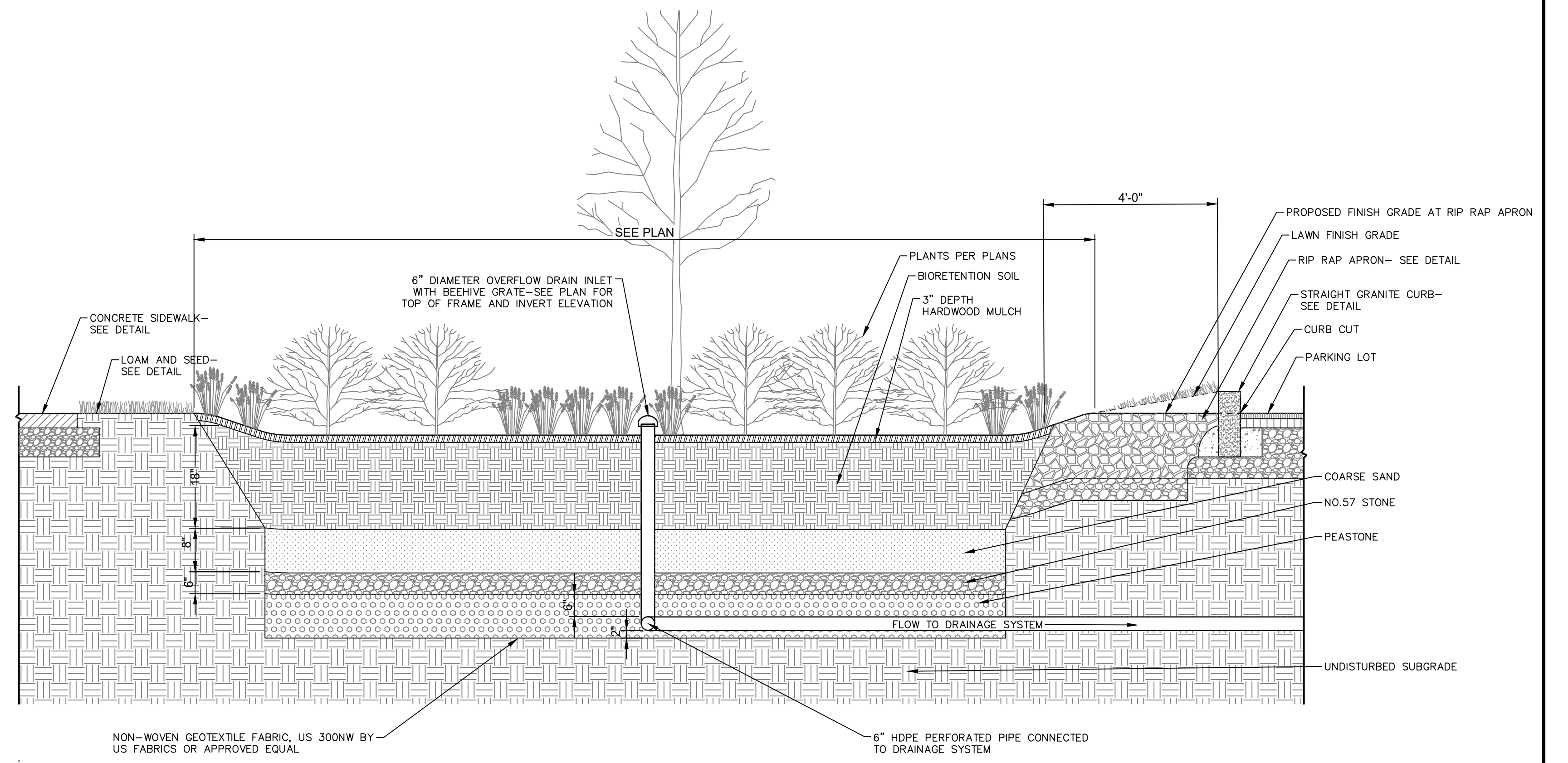
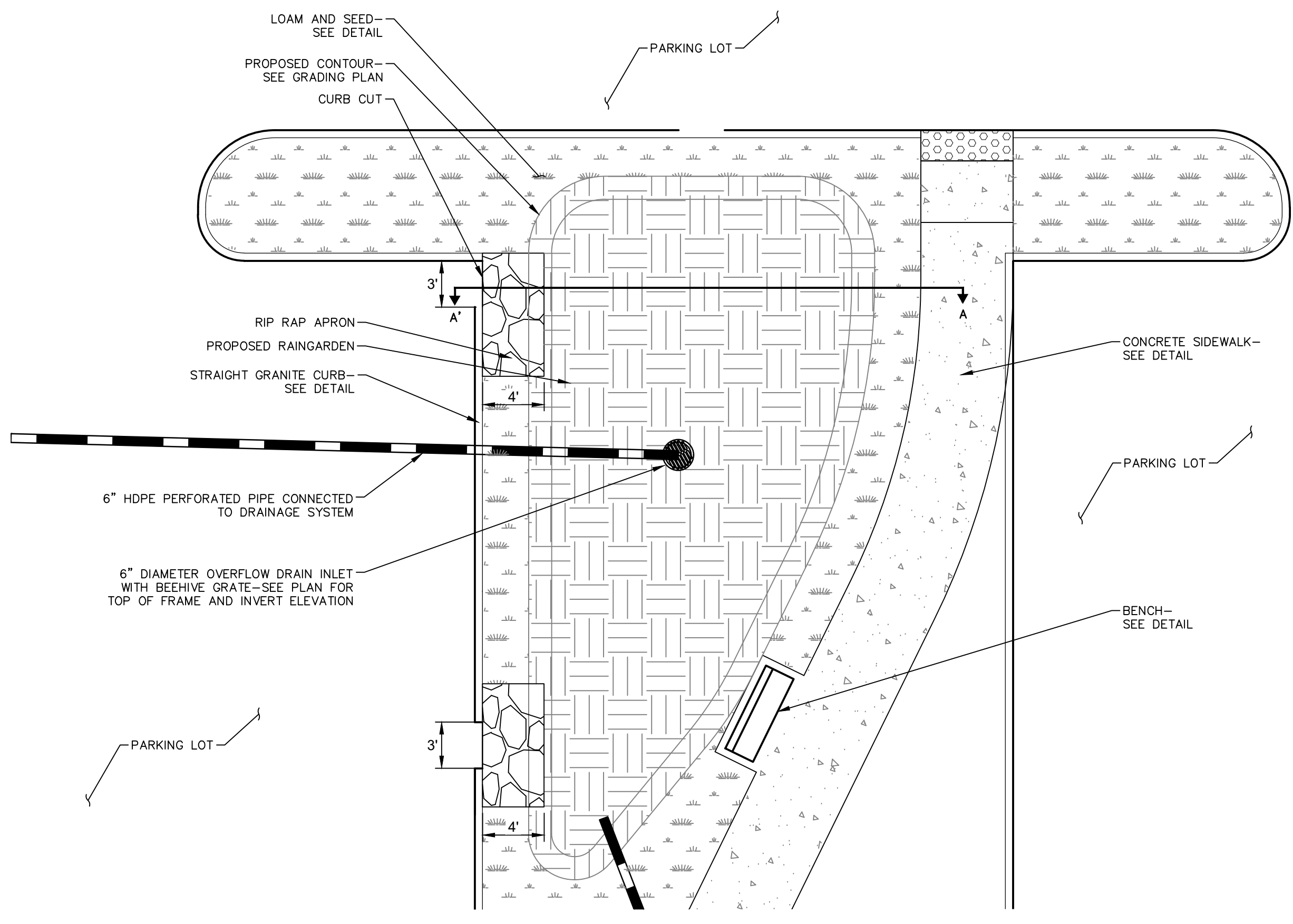
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REVISIONS	
No.	Date

Designed	K.A.
Drawn	K.A.
Reviewed	M.M.
Scale	
Project No.	2001478
Date	SEPTEMBER, 2021
CAD File:	DN200147801
Title	SITE LANDSCAPE DETAILS
Sheet No.	DN-13

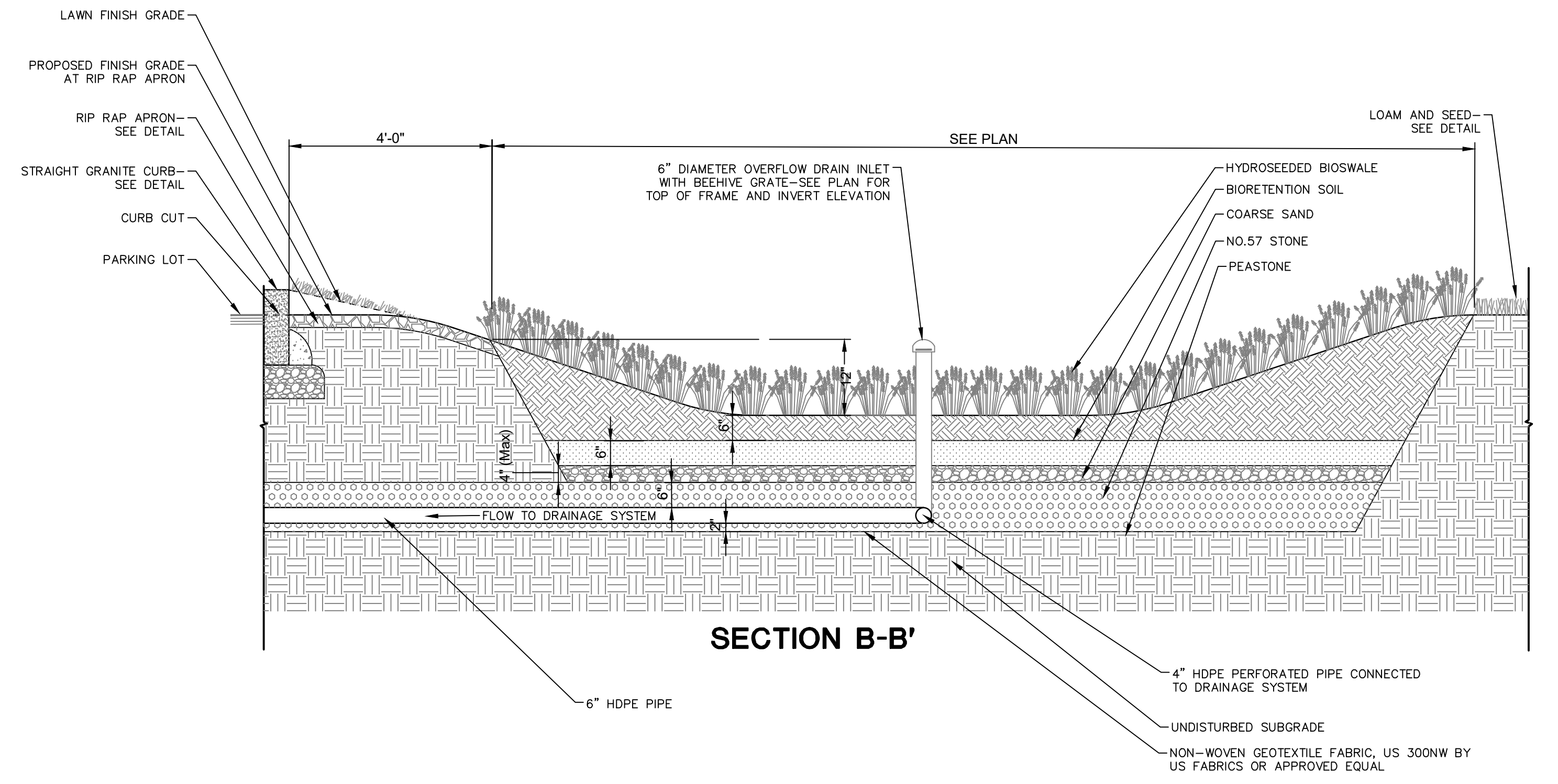
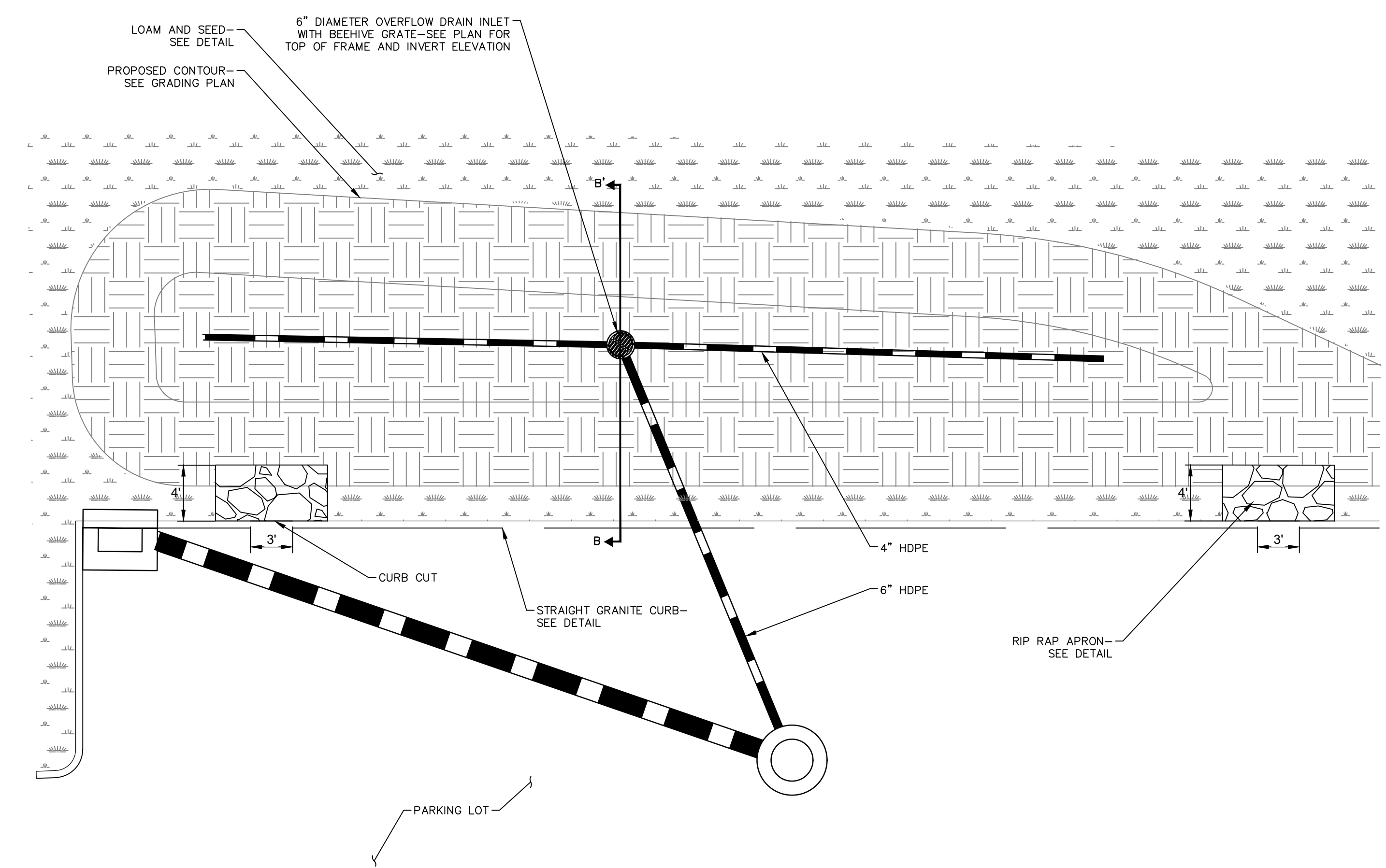
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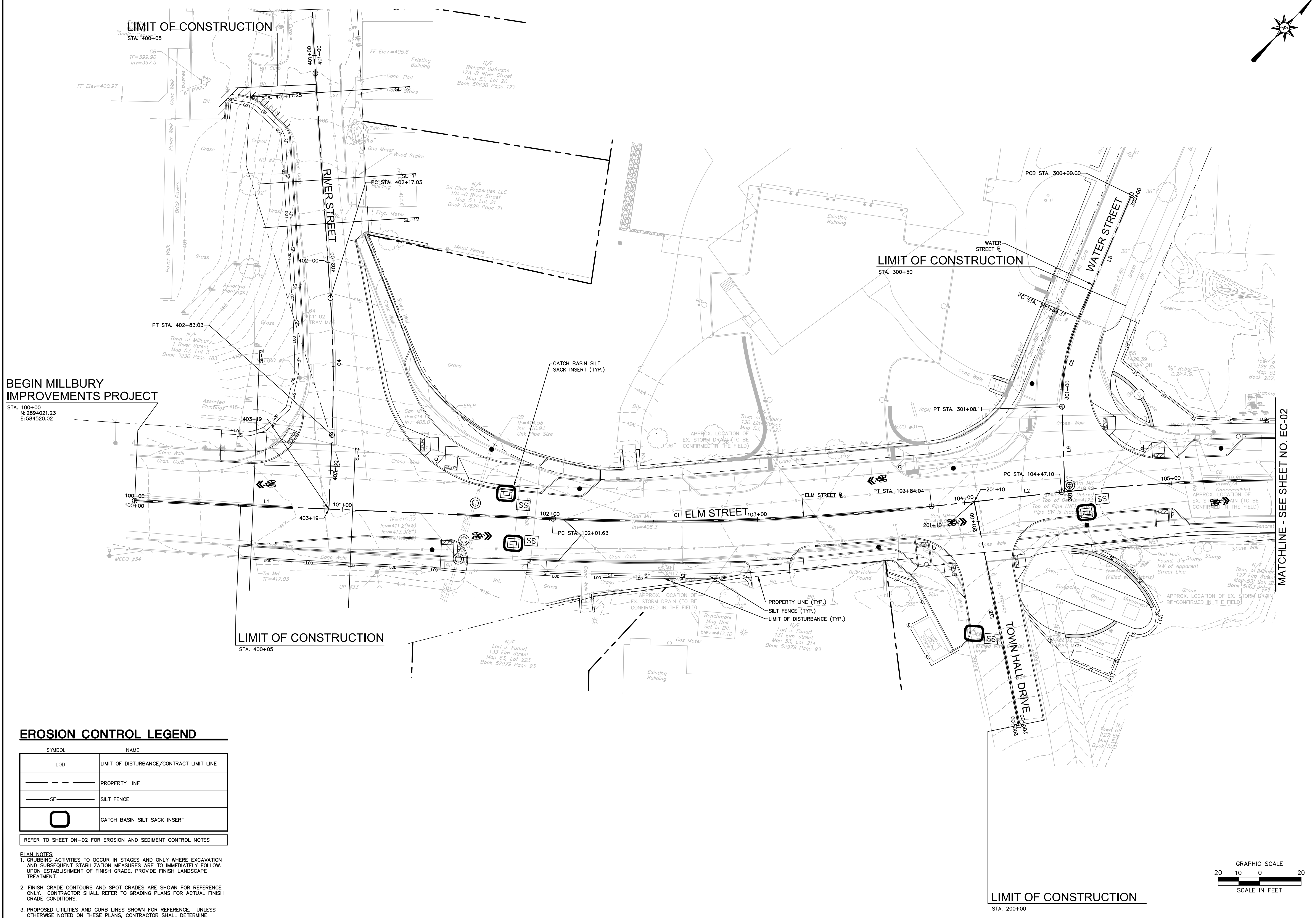
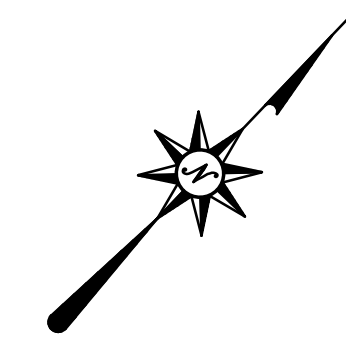
RAIN GARDEN AT PARKING LOT DETAIL

N.T.S.



BIOSWALE AT PARKING LOT

N.T.S.



BEGIN MILLBURY IMPROVEMENTS PROJECT

STA. 100+00
N: 2694021.23
E: 584520.02

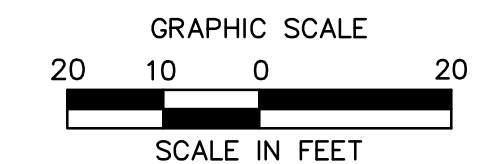
EROSION CONTROL LEGEND

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
- - -	PROPERTY LINE
SF	SILT FENCE
□	CATCH BASIN SILT SACK INSERT

REFER TO SHEET DN-02 FOR EROSION AND SEDIMENT CONTROL NOTES

PLAN NOTES:

- GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW. UPON ESTABLISHMENT OF FINISH GRADE, PROVIDE FINISH LANDSCAPE TREATMENT.
- FINISH GRADE CONTOURS AND SPOT GRADES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO GRADING PLANS FOR ACTUAL FINISH GRADE CONDITIONS.
- PROPOSED UTILITIES AND CURB LINES SHOWN FOR REFERENCE. UNLESS OTHERWISE NOTED ON THESE PLANS, CONTRACTOR SHALL DETERMINE SEQUENCE OF INSTALLATION.



REVISIONS	No.	Date	Desc.

Designed: M.M.
Drawn: K.A.
Reviewed: M.M.
Scale: 1" = 20'
Project No.: 2001478
Date: SEPTEMBER, 2021
CAD File: EC20047801

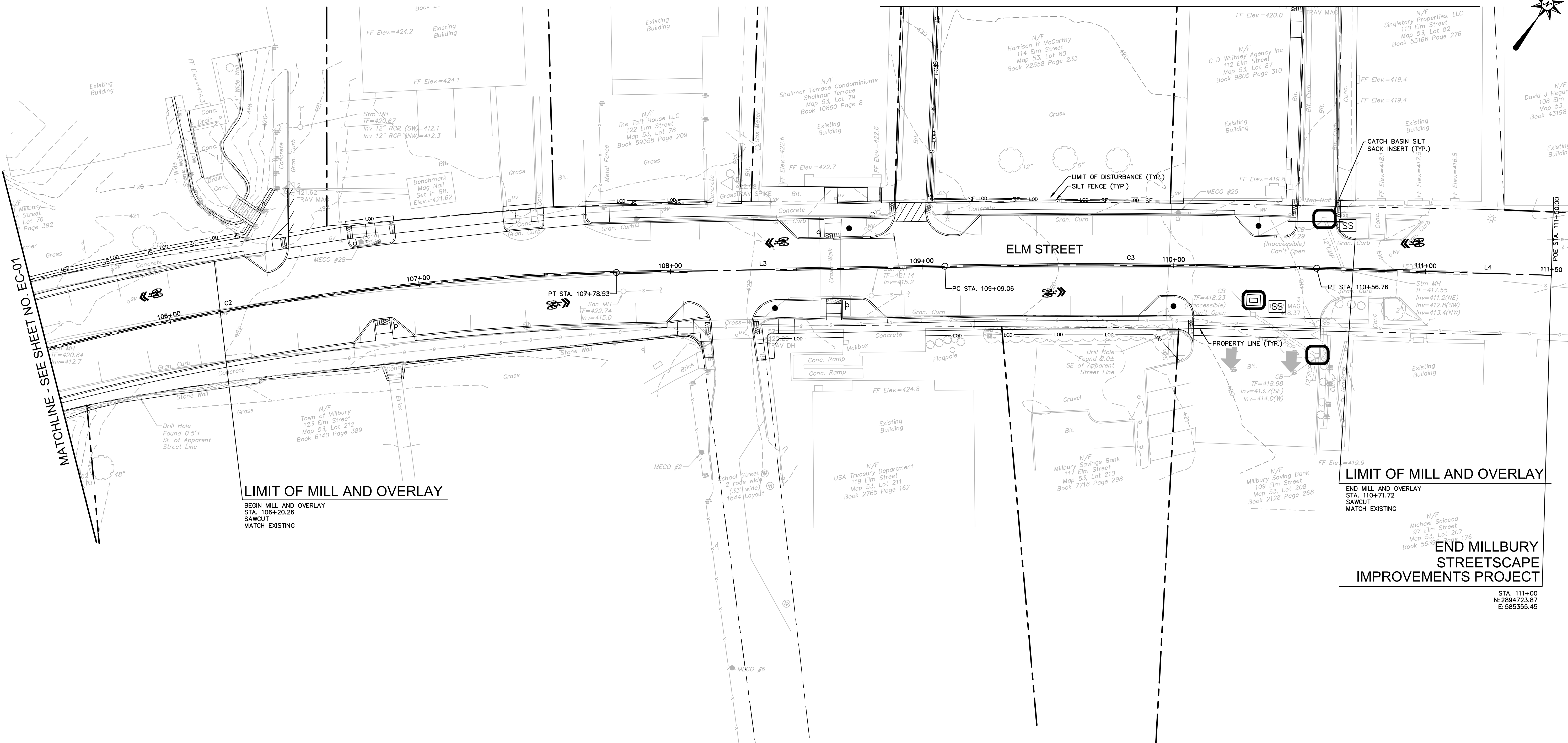
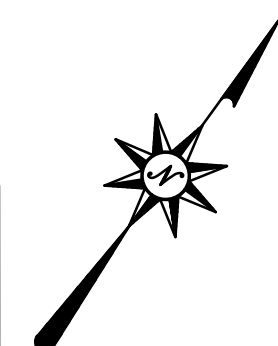
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EROSION AND SEDIMENTATION CONTROL PLAN

Sheet No.:

EC-01

7/22/2021, 14:02, \\BLCOMPANIES\COMPUTERS\PROJ\020047801\001\DWG\EC20047801.DWG (EC-01)

MATCHLINE - SEE SHEET NO. EC-03



LIMIT OF MILL AND OVERLAY
BEGIN MILL AND OVERLAY
STA. 106+20.26
SAWCUT
MATCH EXISTING

LIMIT OF MILL AND OVERLAY
END MILL AND OVERLAY
STA. 110+71.72
SAWCUT
MATCH EXISTING

**END MILLBURY
STREETSCAPE
IMPROVEMENTS PROJECT**

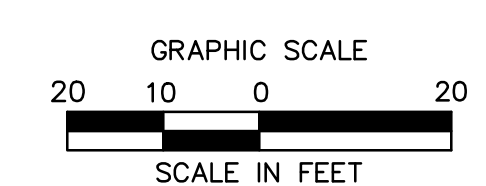
STA. 111+00
N: 2894723.87
E: 585355.45

EROSION CONTROL LEGEND

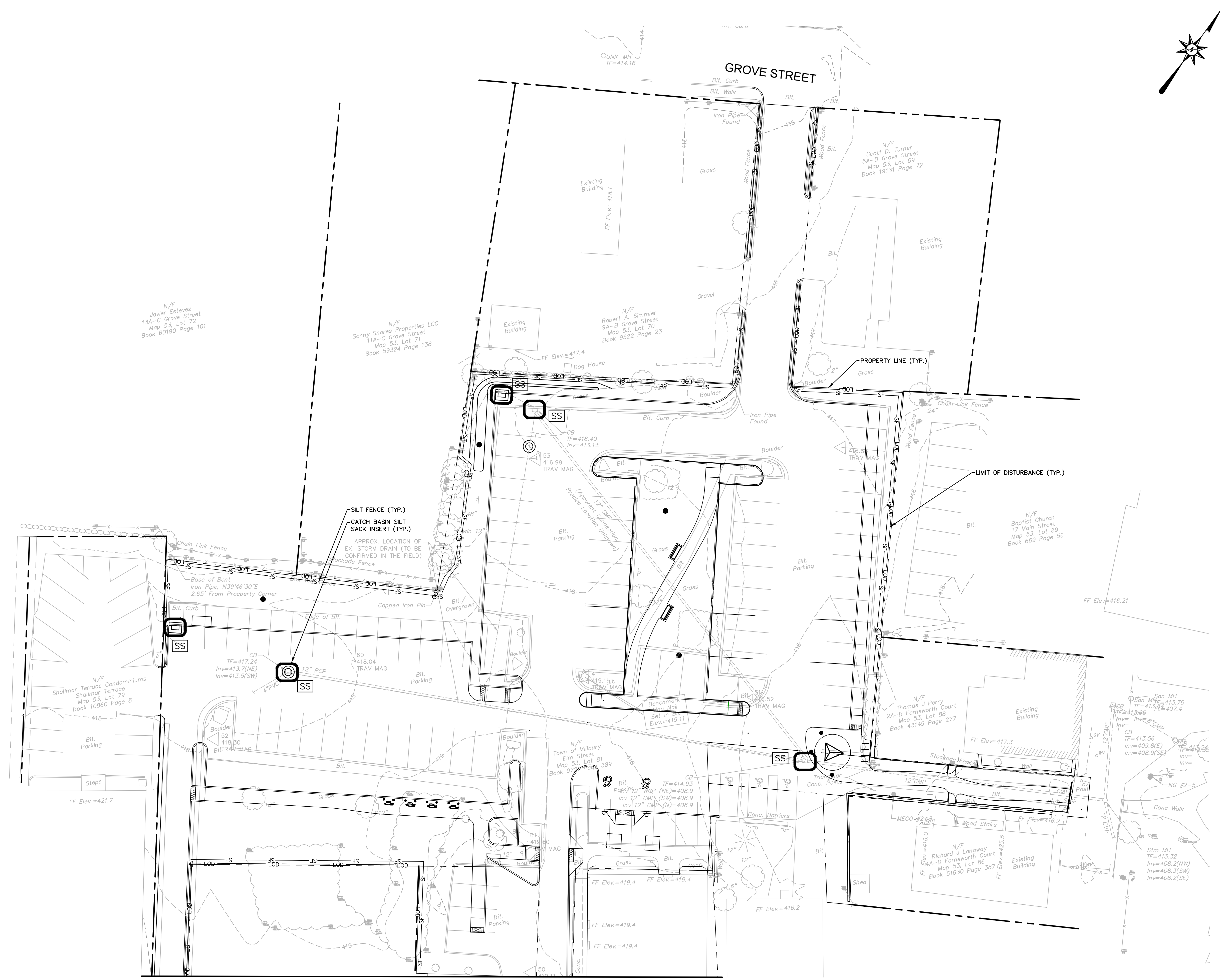
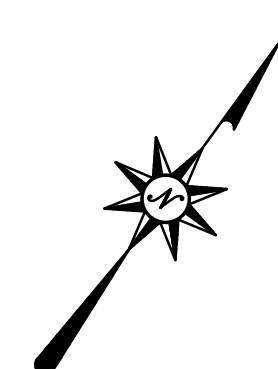
SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
---	SILT FENCE
□	CATCH BASIN SILT SACK INSERT

REFER TO SHEET DN-02 FOR EROSION AND SEDIMENT CONTROL NOTES

- PLAN NOTES:**
- GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW. UPON ESTABLISHMENT OF FINISH GRADE, PROVIDE FINISH LANDSCAPE TREATMENT.
 - FINISH GRADE CONTOURS AND SPOT GRADES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO GRADING PLANS FOR ACTUAL FINISH GRADE CONDITIONS.
 - PROPOSED UTILITIES AND CURB LINES SHOWN FOR REFERENCE. UNLESS OTHERWISE NOTED ON THESE PLANS, CONTRACTOR SHALL DETERMINE SEQUENCE OF INSTALLATION.



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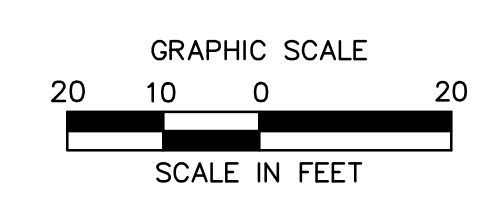
MATCHLINE - SEE SHEET NO. EC-02

EROSION CONTROL LEGEND

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
SF	SILT FENCE
SS	CATCH BASIN SILT SACK INSERT

REFER TO SHEET DN-02 FOR EROSION AND SEDIMENT CONTROL NOTES

- PLAN NOTES:**
- GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW. UPON ESTABLISHMENT OF FINISH GRADE, PROVIDE FINISH LANDSCAPE TREATMENT.
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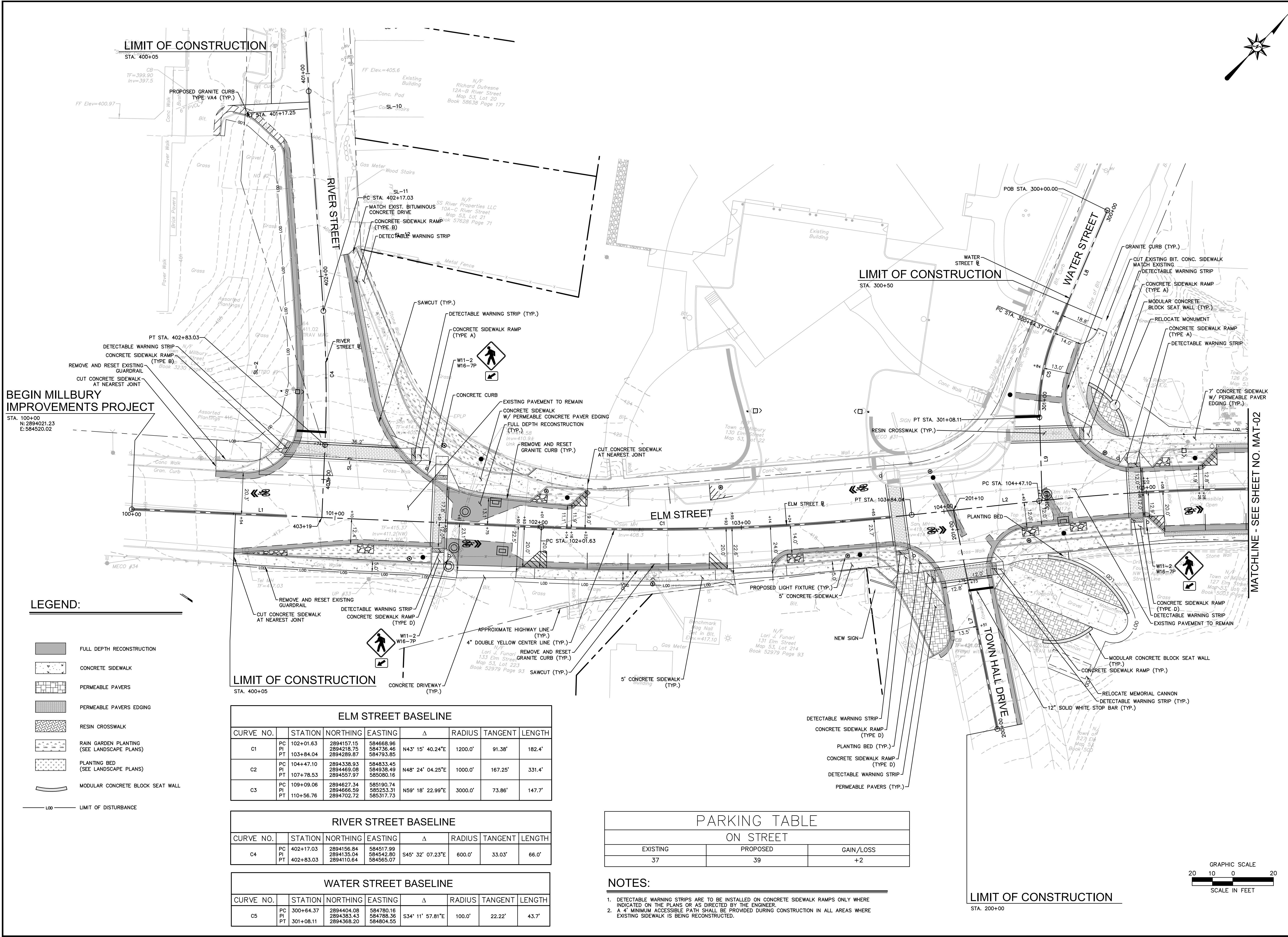
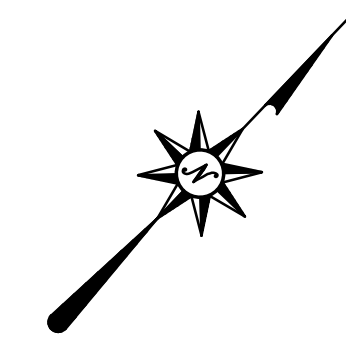
REVISIONS	No.	Date	Desc.

Designed M.M.
Drawn K.A.
Reviewed M.M.
Scale 1" = 20'
Project No. 2001478
Date SEPTEMBER, 2021
CAD File: EC20047801

Title
EROSION AND SEDIMENTATION CONTROL PLAN

Sheet No.


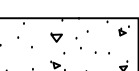
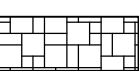


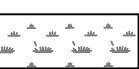


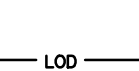
EC-03



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	584668.96	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				

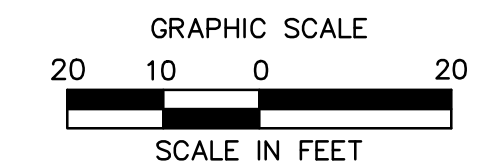
WATER STREET BASELINE

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

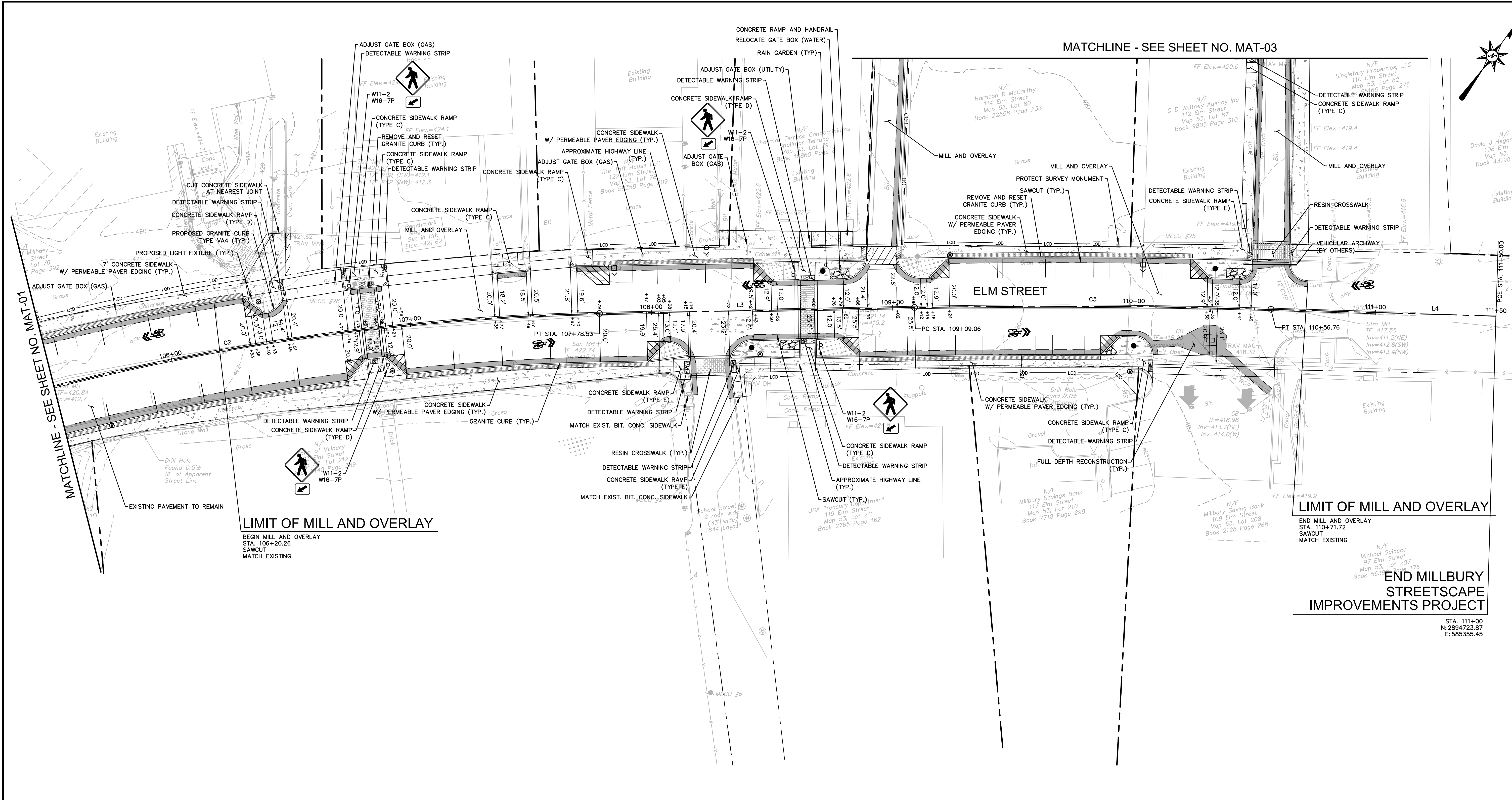
EXISTING	PROPOSED	GAIN/LOSS
37	39	+2

- 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.



LIMIT OF CONSTRUCTION
STA. 200+00

MATCHLINE - SEE SHEET NO. MAT-02



LIMIT OF MILL AND OVERLAY
BEGIN MILL AND OVERLAY
STA. 106+20.26
SAWCUT
MATCH EXISTING

LIMIT OF MILL AND OVERLAY
END MILL AND OVERLAY
STA. 110+71.72
SAWCUT
MATCH EXISTING

**END MILLBURY
STREETSCAPE
IMPROVEMENTS PROJECT**

STA. 111+00
N: 2894723.97
E: 585355.45

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

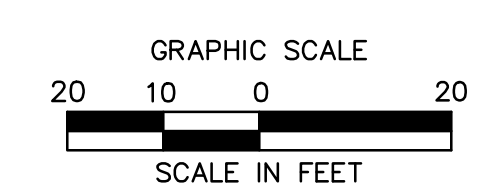
ELM STREET BASELINE							
CURVE NO.	STATION	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C1	PC 102+01.63	2894157.15	584668.96	N43° 15' 40.24"E	1200.0'	91.38'	182.4'
	PI 103+84.04	2894218.75	584736.46				
C2	PC 104+47.10	2894338.93	584833.45	N48° 24' 04.25"E	1000.0'	167.25'	331.4'
	PT 107+78.53	2894463.08	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 402+17.03	2894156.84	584517.99	S45° 32' 07.23"E	600.0'	33.03'	66.0'
	PI 402+83.03	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				

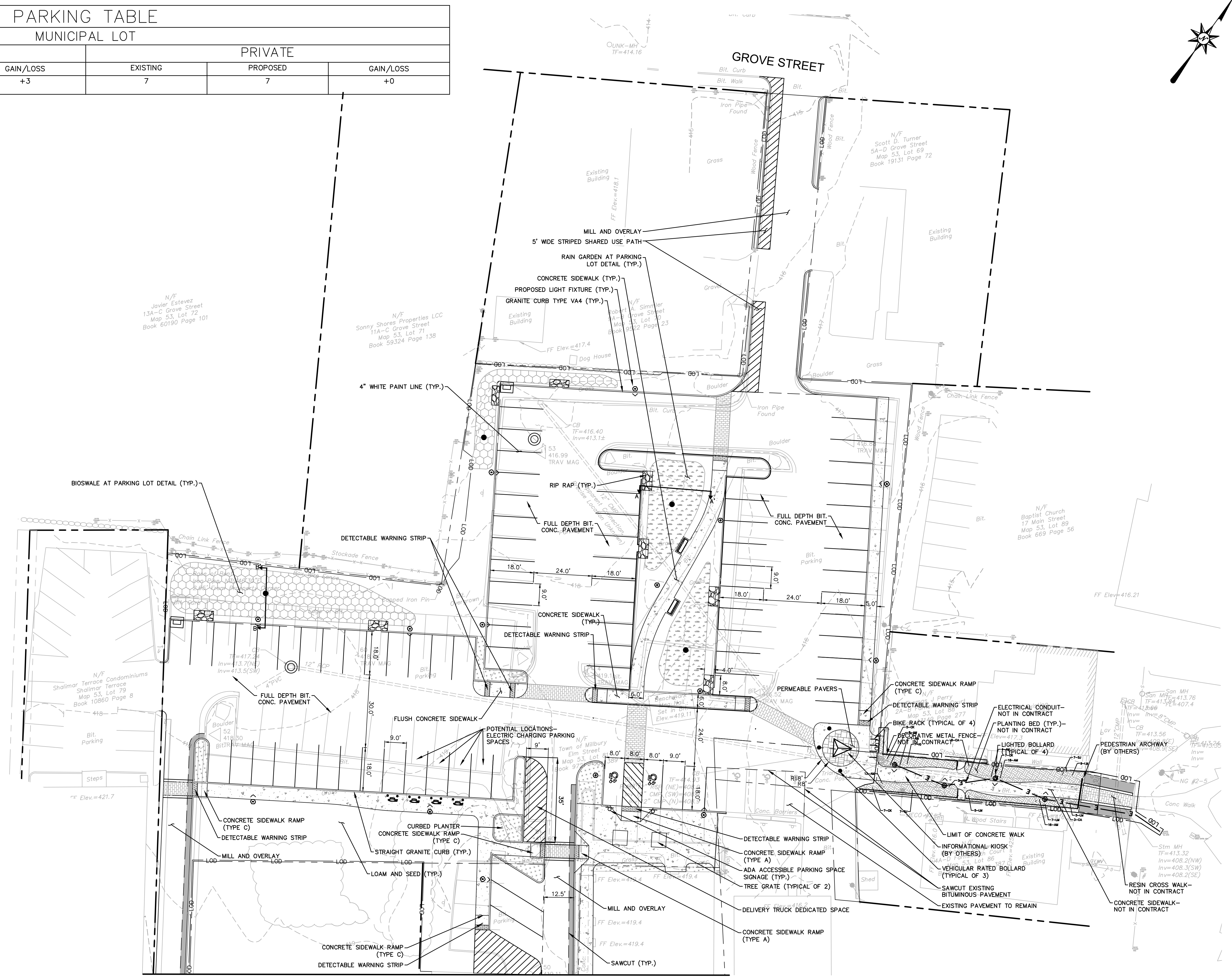
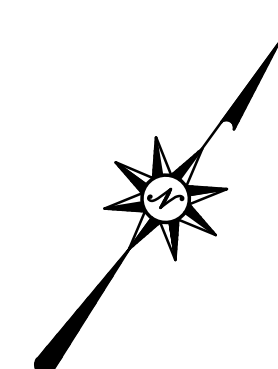
PARKING TABLE ON STREET		
EXISTING	PROPOSED	GAIN/LOSS
37	39	+2

- 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.



9/20/2021, 10:47:02 AM, I:\COMPANIES\COMPANY\PROJECTS\2021\140001\481\DWG\MAT20047801.DWG

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



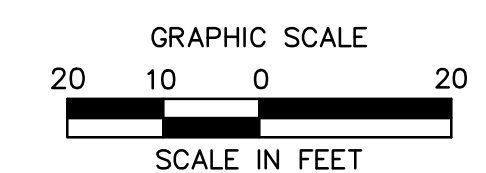
MATCHLINE - SEE SHEET NO. MAT-02

LEGEND:

- CONCRETE SIDEWALK
- RESIN CROSSWALK
- PERMEABLE PAVERS
- RAIN GARDEN PLANTING (SEE LANDSCAPE PLANS)
- SHRUB & GROUND COVER 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:

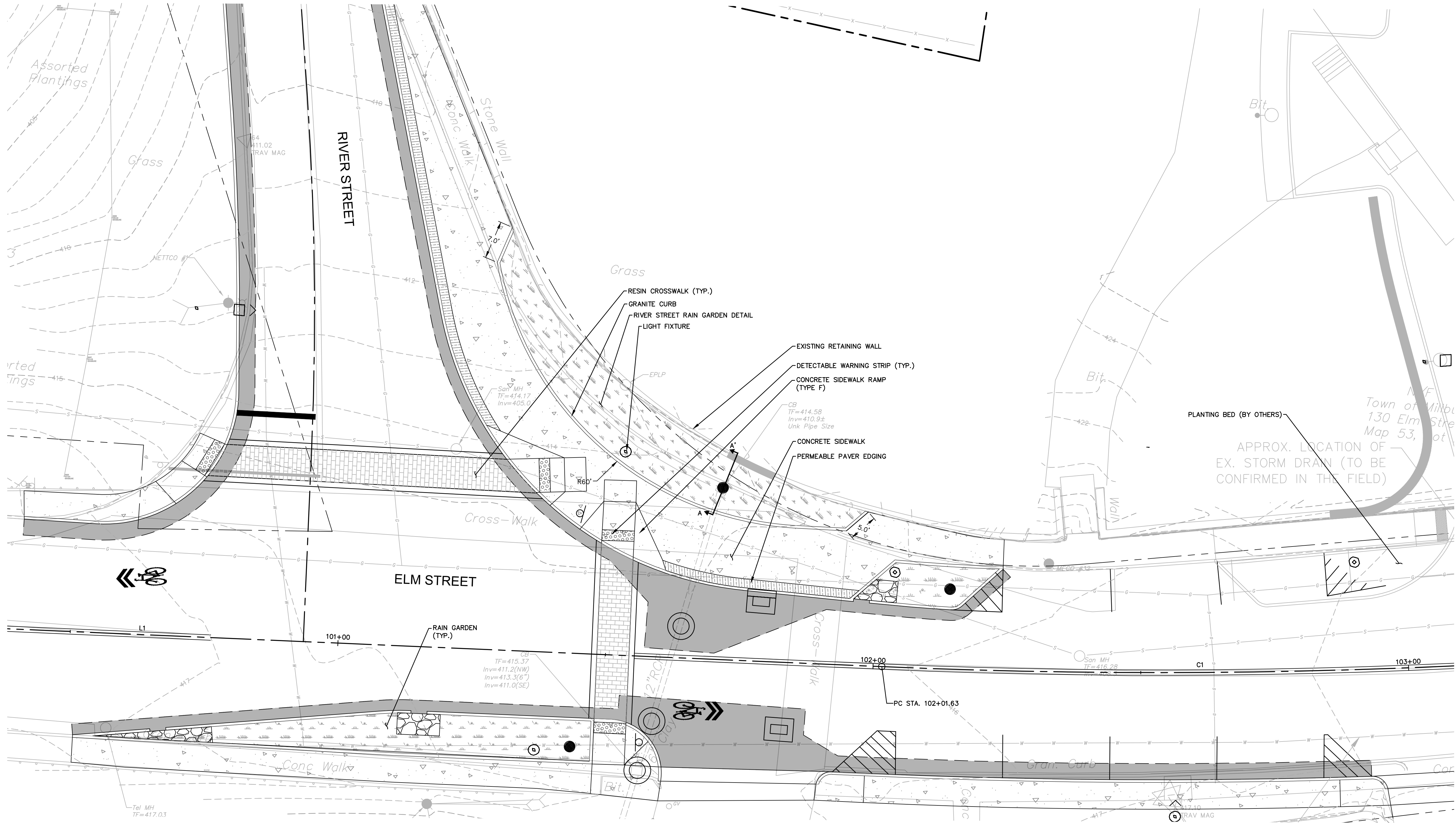
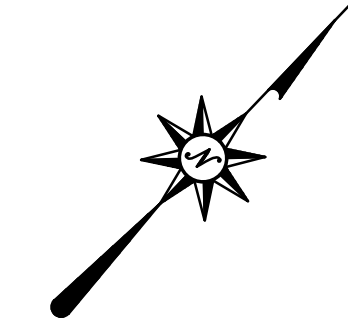
1. DETECTABLE WARNING STRIPS ARE TO BE INSTALLED ON CONCRETE SIDEWALK RAMPS ONLY WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. A 4' MINIMUM ACCESSIBLE PATH SHALL BE PROVIDED DURING CONSTRUCTION IN ALL AREAS WHERE EXISTING SIDEWALK IS BEING RECONSTRUCTED.



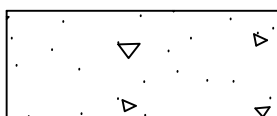
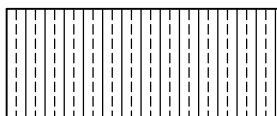
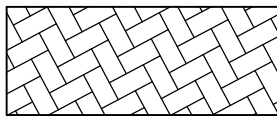
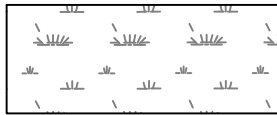
REVISIONS	No.	Date	Desc.

Designed	M.M.
Drawn	B.C.T.
Reviewed	N.R.G.
Scale	1" = 20'
Project No.	2001478
Date	SEPTEMBER, 2021
CAD File:	MAT20047801
Title	MATERIALS PLAN
Sheet No.	MAT-03

9/20/2021, 10:45:00 AM, \\BLCOMPANIES\COMPS\DESIGN\PROJECTS\2001478\DWG\MAT20047801.DWG



LEGEND

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

RIVER STREET INTERSECTION ENLARGEMENT

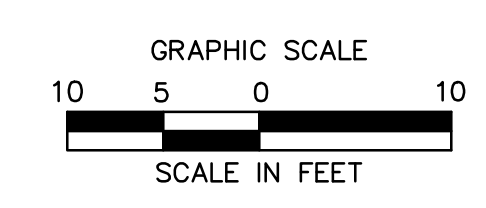
N.T.S.

REVISIONS	No.	Date	Desc.

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

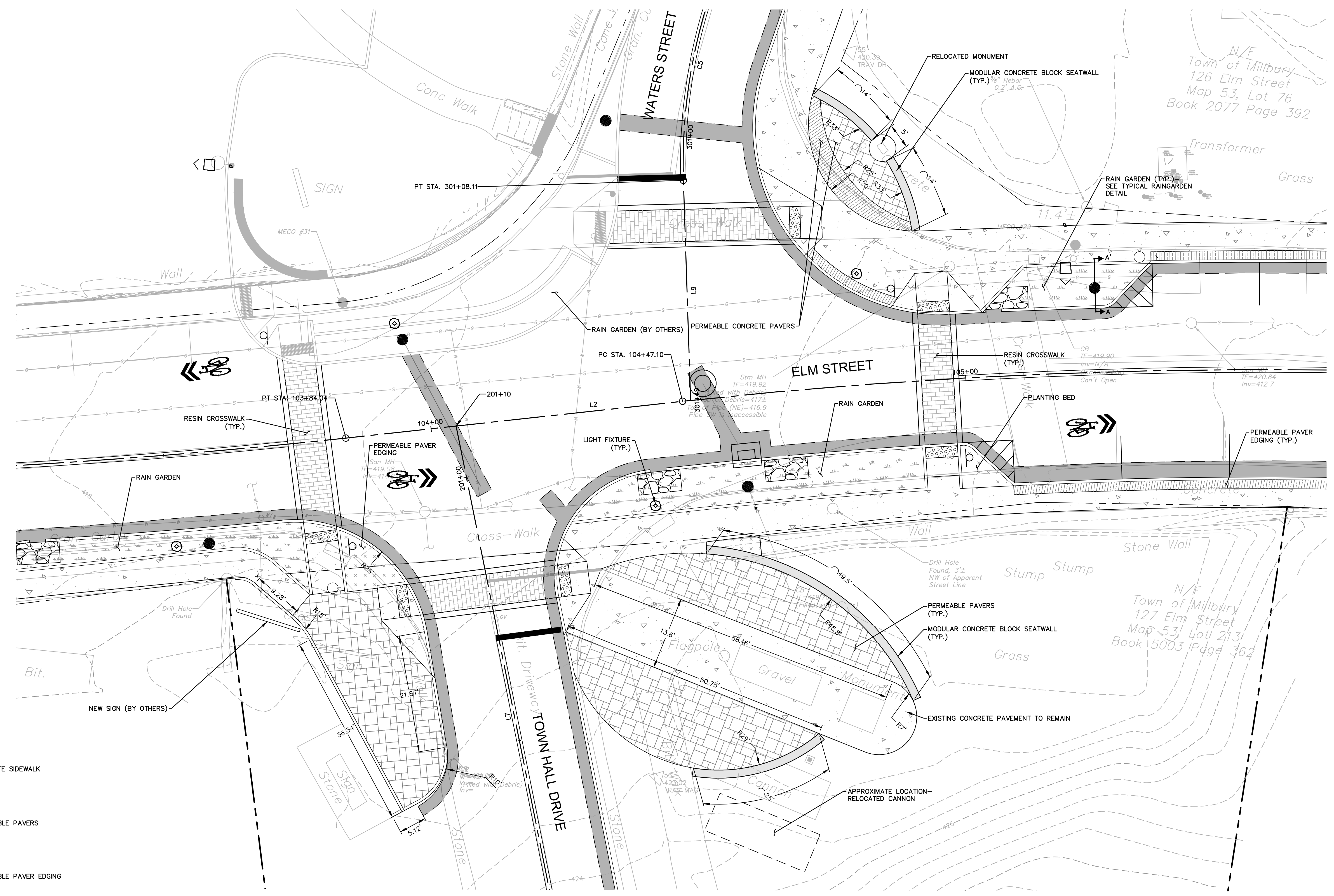
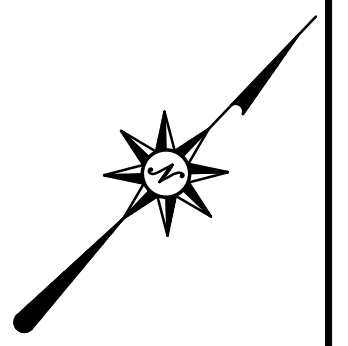
Title
MATERIALS ENLARGEMENT PLAN

Sheet No.



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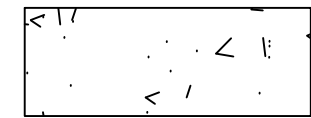
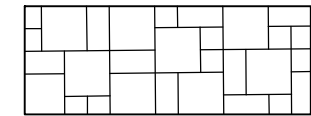
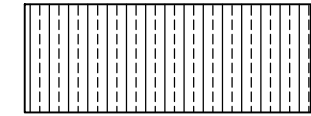
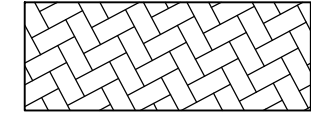
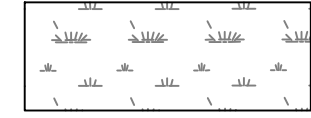
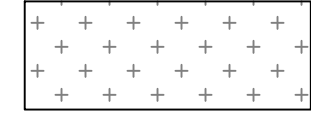
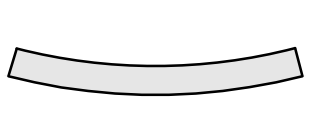
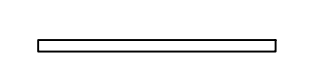


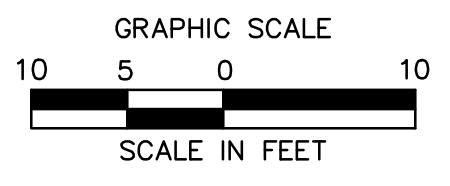
WATERS STREET AND TOWN HALL DRIVE INTERSECTION

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)



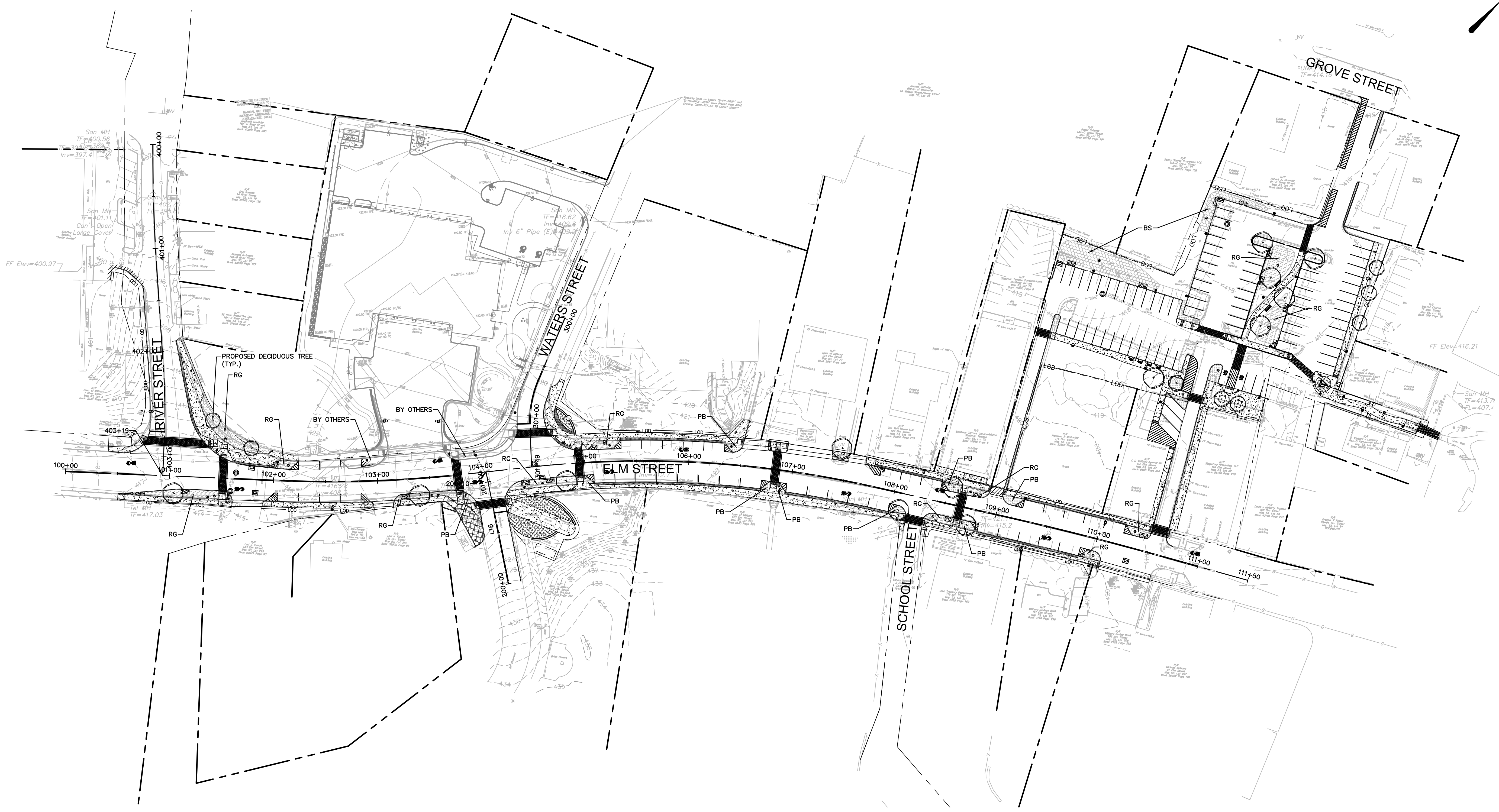
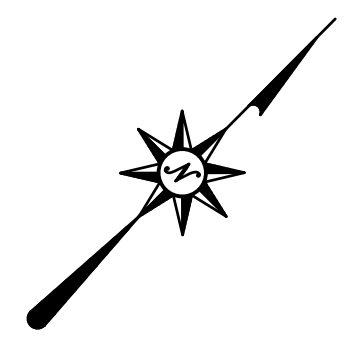
REVISIONS	No.	Date	Desc.

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




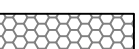
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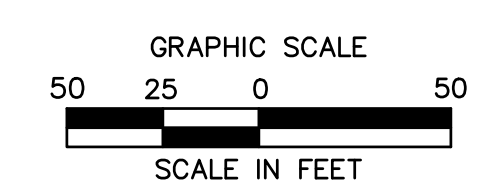
MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA



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



REVISIONS	No.	Date	Desc.

Designed	M.M.
Drawn	K.A.
Reviewed	XXX
Scale	1" = 50'
Project No.	2001478
Date	SEPTEMBER, 2021
CAD File:	LL20047802
Title	OVERALL LANDSCAPE PLAN
Sheet No.	LL-00

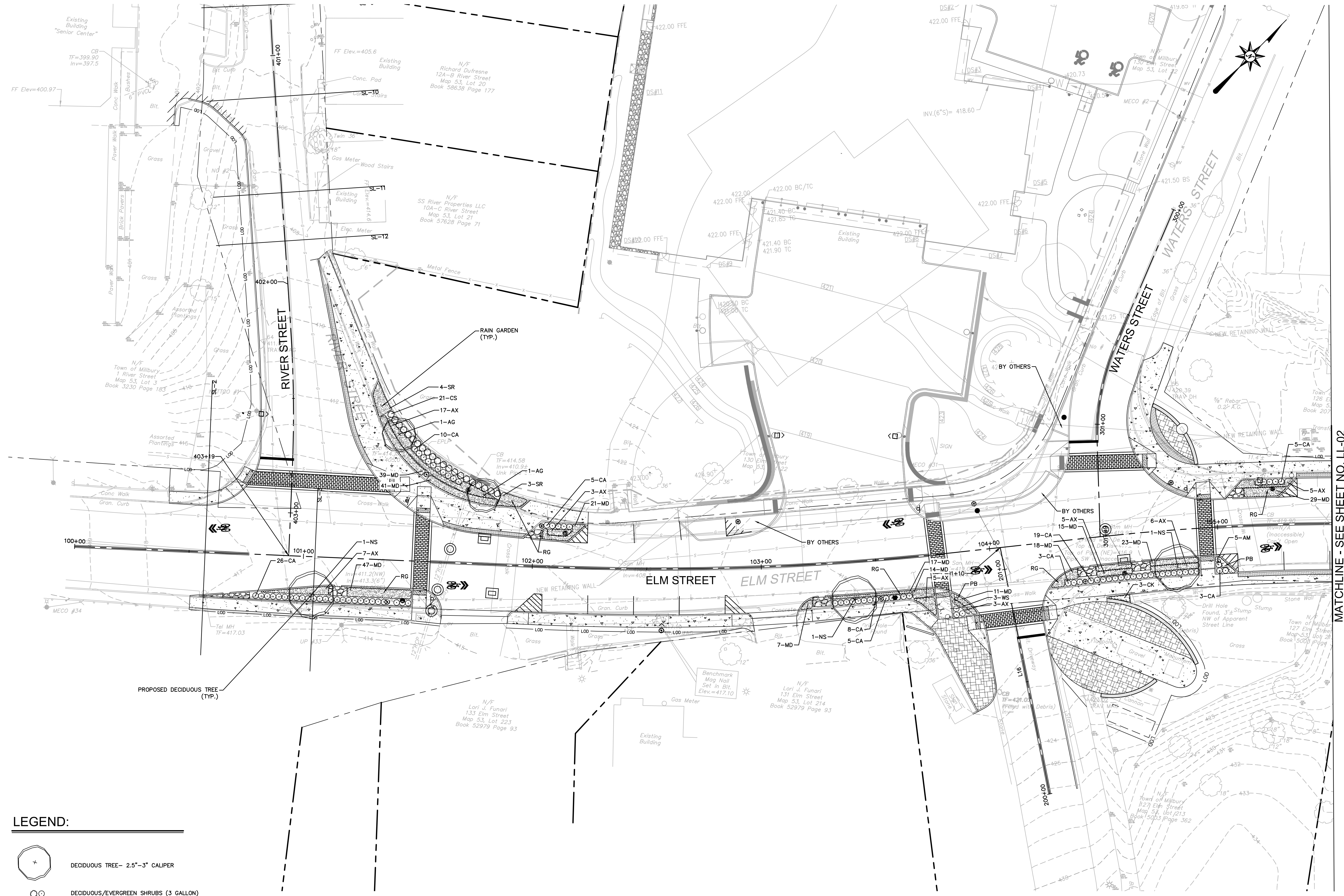
MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	No.	Date	Desc.



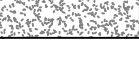
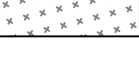
Designed M.M.
Drawn K.A.
Reviewed M.M.
Scale 1" = 20'
Project No. 2001478
Date SEPTEMBER, 2021
CAD File: LL20047802

Sheet No.

LL-01

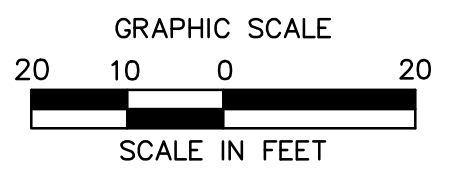


LEGEND:

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

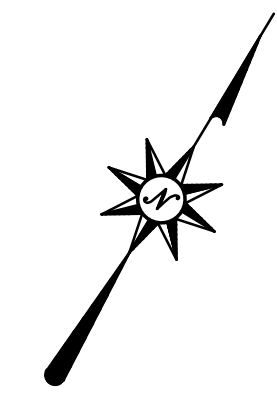
ABBREVIATIONS:

PB: PLANTING BED
RG: RAIN GARDEN

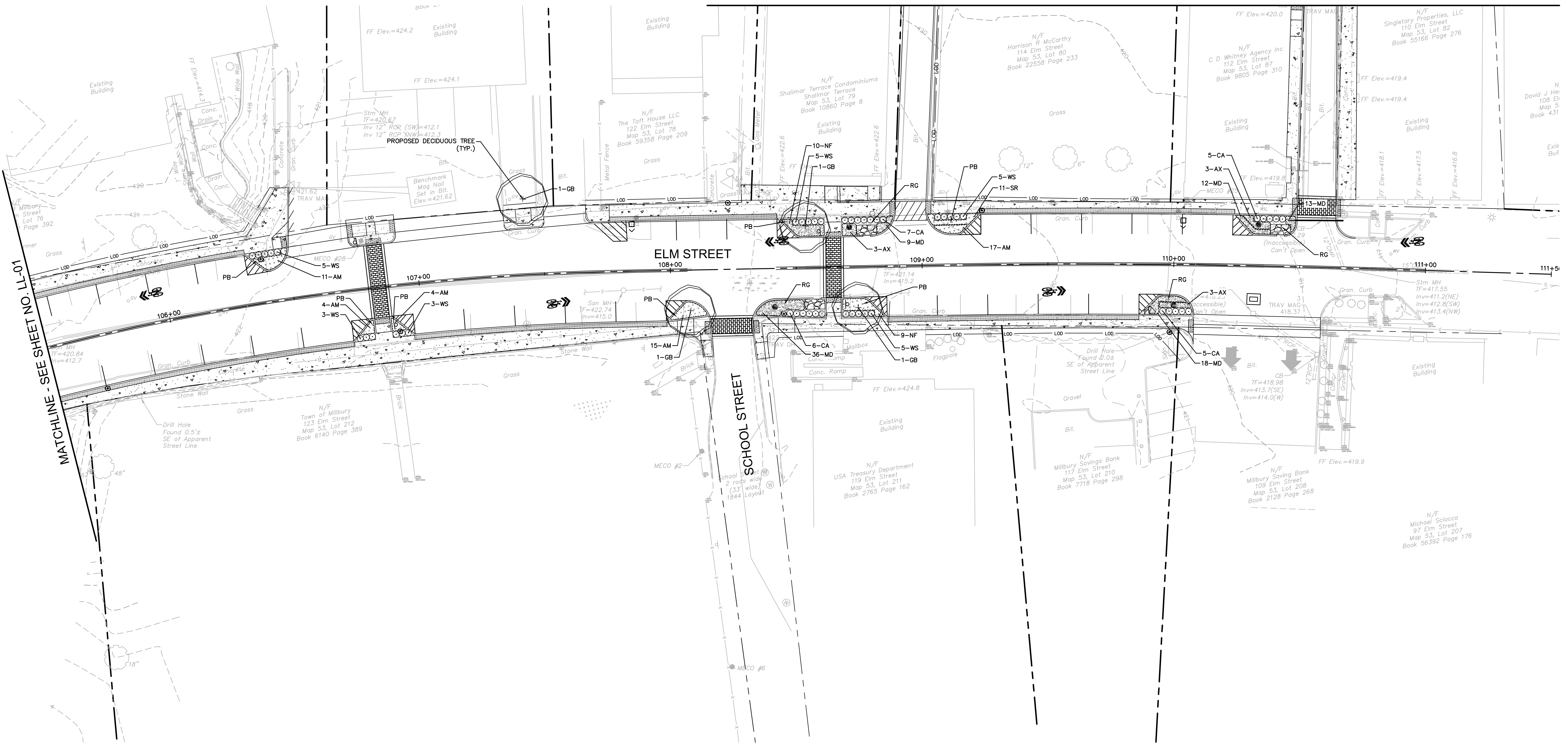


MATCHLINE - SEE SHEET NO. LL-02

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MATCHLINE - SEE SHEET NO. LL-03

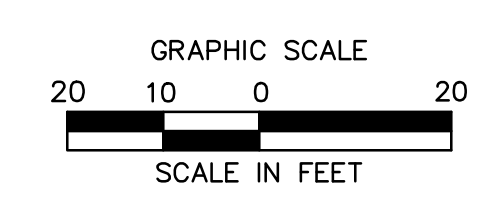


MATCHLINE - SEE SHEET NO. LL-01

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



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	
No.	Date

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

Title

LANDSCAPE PLAN

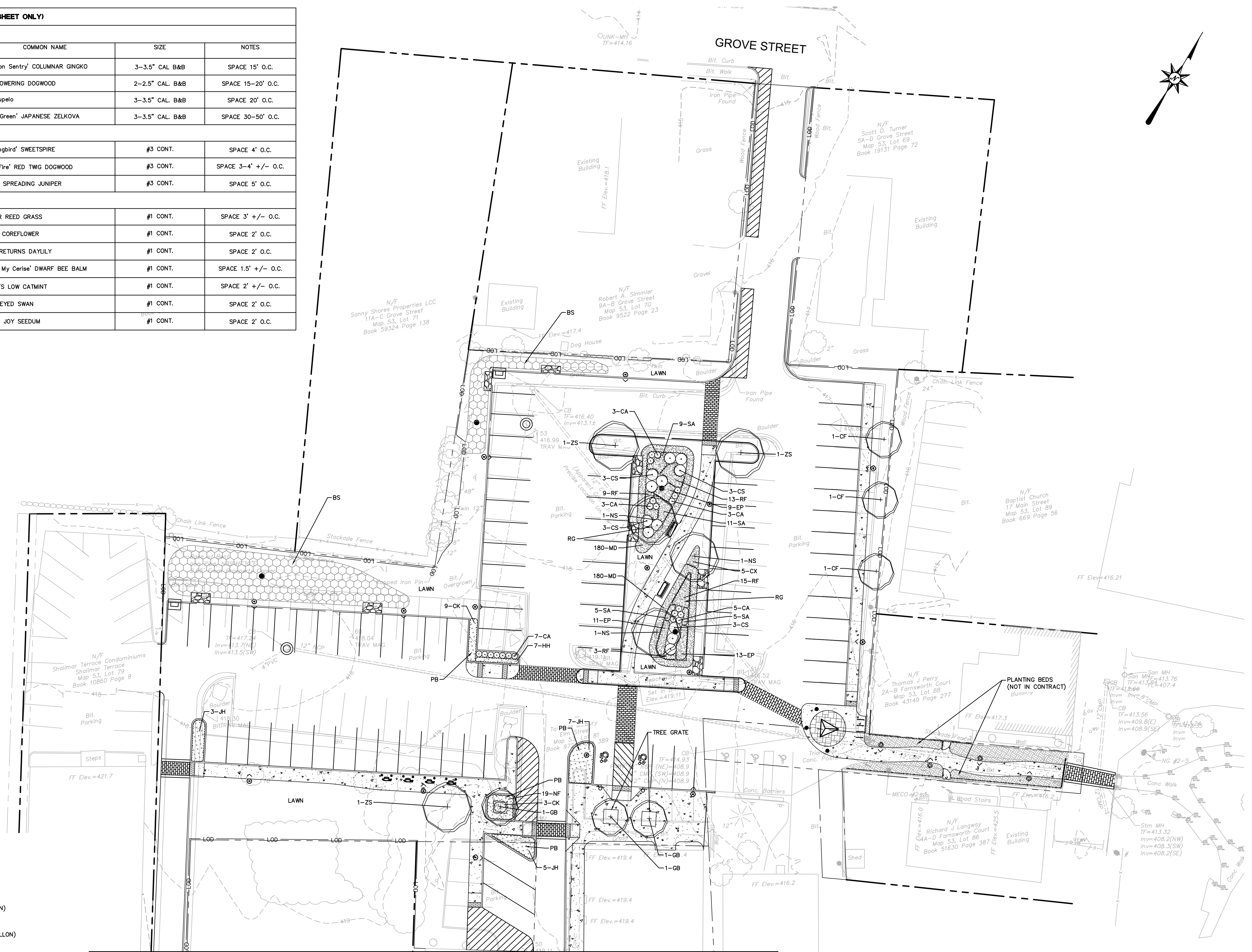
Sheet No.

LL-02

LANDSCAPE PLANT SCHEDULE (PLANT SCHEDULE FOR THIS SHEET ONLY)

TREES					
ABRV.	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
GB	3	GINGKO BILOBA 'Princeton Sentry'	'Princeton Sentry' COLUMNAR GINGKO	3-3.5" CAL B&B	SPACE 15' O.C.
CF	3	CORNUS FLORIDA 'Cherokee Princess'	PINK FLOWERING DOGWOOD	2-2.5" CAL. B&B	SPACE 15-20' O.C.
NS	3	NYSSA SYLVATICA	Black Tupelo	3-3.5" CAL. B&B	SPACE 20' O.C.
ZS	3	ZELKOVA SERRATA 'Village Green'	'Village Green' JAPANESE ZELKOVA	3-3.5" CAL. B&B	SPACE 30-50' O.C.
SHRUBS					
CA#	21	CLETHRA ALNIFOLIA 'Hummingbird'	'Hummingbird' SWEETSPIRE	#3 CONT.	SPACE 4' O.C.
CS#	12	CORNUS STOLONIFERA 'Farrow'	'Arctic Fire' RED TWIG DOGWOOD	#3 CONT.	SPACE 3-4' +/- O.C.
JH	15	JUNIPERUS HORIZONTALIS 'Hughes'	HUGHES SPREADING JUNIPER	#3 CONT.	SPACE 5' O.C.
PERENNIALS AND ORNAMENTAL GRASSES					
CK	12	CALAMAGROSTIS X ACUIFLORA 'Karl Foerster'	FEATHER REED GRASS	#1 CONT.	SPACE 3' +/- O.C.
EP	33	ECHINACEA PURPEREA	PURPLE COREFLOWER	#1 CONT.	SPACE 2' O.C.
HH	7	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	#1 CONT.	SPACE 2' O.C.
MD#	360	MONARDA DIDYMA 'Pardon my Cerise' (RED)	'Pardon My Cerise' DWARF BEE BALM	#1 CONT.	SPACE 1.5' +/- O.C.
NF	19	NEPETA FAASSENII 'WALKERS LOW'	WALKER'S LOW CATMINT	#1 CONT.	SPACE 2' +/- O.C.
RF	40	RUDBECKIA FULGIDA	BLACK-EYED SWAN	#1 CONT.	SPACE 2' O.C.
SA#	30	SEEDUM 'Autumn Joy'	AUTUMN JOY SEEDUM	#1 CONT.	SPACE 2' O.C.

RAIN GARDEN APPROPRIATE

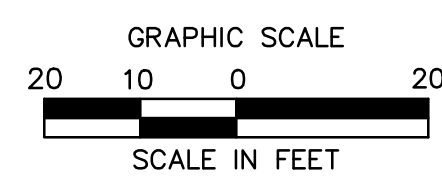


MATCHLINE - SEE SHEET NO. LL-02

LEGEND:

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

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



REV/ISSN	Date	Desc.
No.		
Designed	M.M.	
Drawn	K.A.	
Reviewed	M.M.	
Scale	1" = 20'	
Project No.	2001478	
Date	SEPTEMBER, 2021	
CAD File:	LL20047802	

LANDSCAPE PLAN

Sheet No.

LL-03

LANDSCAPE NOTES

- 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.
- 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.
- 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.
- 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, SPRAYING, 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.
- 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.
- 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.
- 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.
- FINAL GRADES SHALL BLEND SMOOTHLY WITH EXISTING GRADES, AND TOP AND BOTTOM OF SLOPES SHALL BE ROUNDED.
- 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, ASED AT LEAST 6 MONTHS.
- 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.
- 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.
- PLANTING SOIL:

DEPTH: PLANTING SOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 6" OR AS NOTED IN THE LANDSCAPE DETAIL. 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,Ca,Mg,S,Pb,Mn,Zn,Cu,B,Al,Pb) AND NECESSARY AMENDMENTS TO SOIL. THE CONTRACTOR SHALL REPORT 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:

- 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.
- 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.
 8%–18% FOR RETENTION OR DETENTION BASINS.
 (BY LOSS OF IGNITION AT 375 C METHOD OF TESTING)

PH 6.0 – 7.3

- 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 PLANTS TO BE INSTALLED.
- SOIL SHALL BE COMPACTED TO A SURFACE PENETRATION RESISTANCE OF 75–125 LBS/SQ.IN
- 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.
- 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%
- 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.
- 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 SEEDDED WITH THE LAWN SEED MIX.

SEED MIX NOTES

- 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.
- BIOSWALE SEEDING MIX:
 MANUFACTURER: ERNST CONSERVATION SEEDS, (800) 873–3321, SALES@ERNSTSEED.COM
 PRODUCT: RAIN GARDEN GRASS MIX
 APPLICATION RATE: 15LB/ACRE

LANDSCAPE PLANT SCHEDULE (FOR SHEETS LL-01 AND LL-02 ONLY)

TREES					
ABRV.	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AG*	2	AMELANCHIER X GRANDIFLORA 'Autumn Brilliance'	'Autumn Brilliance' SERVICEBERRY	7–8' TALL* B&B	SPACE 15–20' O.C.
GB	4	GINGKO BILOBA 'Princeton Sentry'	'Princeton Sentry' COLUMNAR GINGKO	3–3.5" CAL B&B	SPACE 15' O.C.
NS	3	NYSSA SYLVATICA	Black Tupelo	3–3.5" CAL B&B	SPACE 20' O.C.
SHRUBS					
AM	56	ARONIA MELANOCARPA 'Low Scape Mound'	'Low Scape Mound' BLACK CHOKEBERRY	#3 CONT.	SPACE 2' +/- O.C.
CA#	107	CLETHRA ALNIFOLIA 'Hummingbird'	'Hummingbird' SWEETSPIRE	#3 CONT.	SPACE 4' O.C.
CS#	21	CORNUS STOLONIFERA 'Farrow'	'Arctic Fire' RED TWIG DOGWOOD	#3 CONT.	SPACE 3–4' +/- O.C.
WS	29	WEIGELA FLORIDA 'Sonic Bloom Pink'	'Sonic Bloom Pink' WEIGELA	#3 CONT.	SPACE 5' O.C.
PERENNIALS AND ORNAMENTAL GRASSES					
AX#	60	ARUNCUS X 'Chantilly Lace'	ARUNCUS X 'Chantilly Lace'	#1 CONT.	SPACE 3' +/- O.C.
CK	3	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	#2 CONT.	SPACE 2.5' +/- O.C.
MD#	290	MONARDA DIDYMA 'Pardon my Cerise' (RED)	'Pardon My Cerise' DWARF BEE BALM	#1 CONT.	SPACE 1.5' +/- O.C.
NF	19	NEPETA X FAASENII 'Walkers Low'	'Walkers Low' CATMINT	#1 CONT.	SPACE 2.5' O.C.
SR#	18	SAMBUCUS RACEMOSA 'Lemony Lace'	'Lemony Lace' ELDERBERRY	#1 CONT.	SPACE 4–5' +/- O.C.

* MULTI-STEMMED FORM
 # RAIN GARDEN APPROPRIATE

REVISIONS
 No. Date Desc.

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

Title
 LANDSCAPE
 NOTES

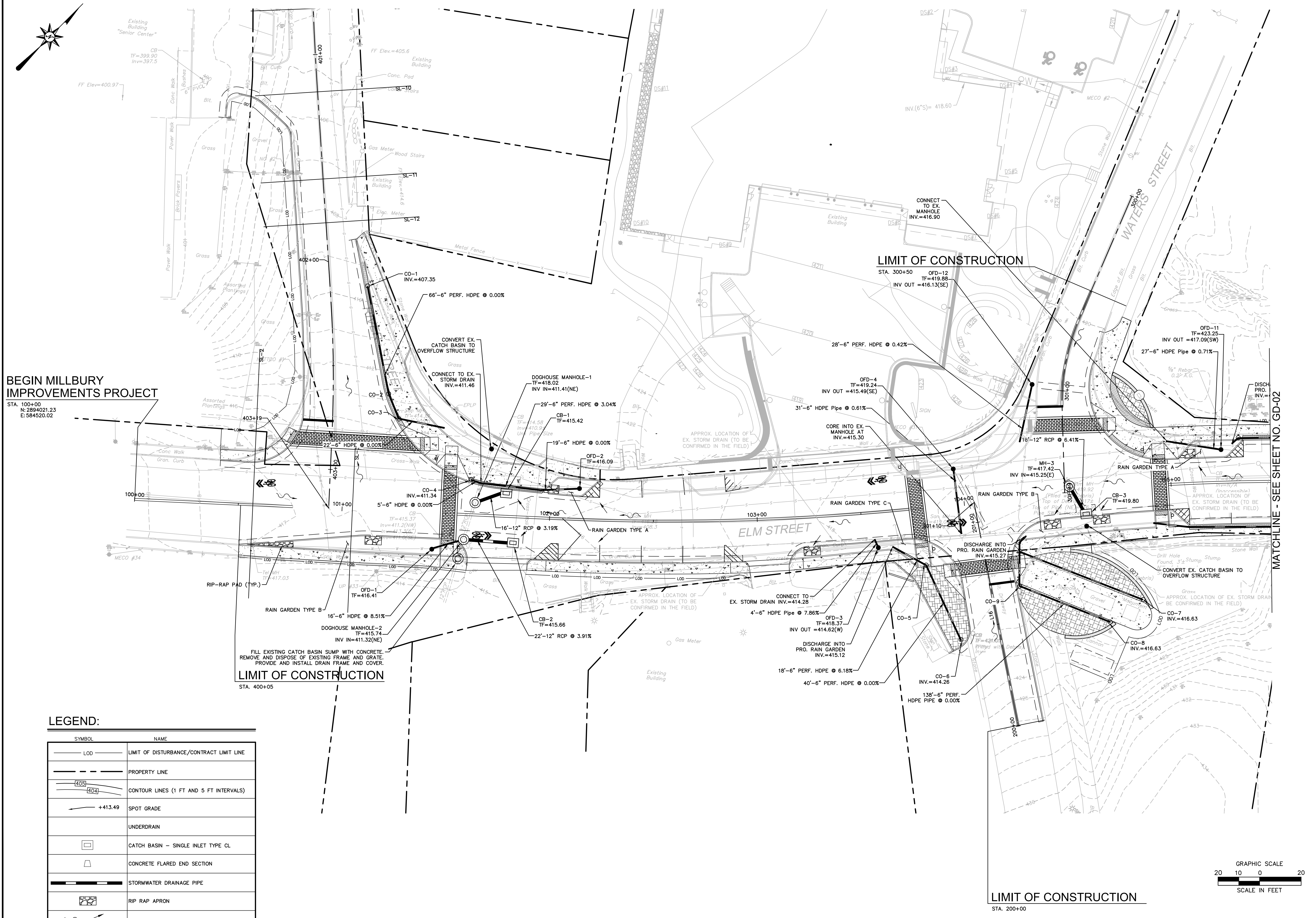
Sheet No.

LL-04

MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	Date	Desc.
No.		

Designed	M.M.
Drawn	K.A.
Reviewed	M.M.
Scale	1" = 20'
Project No.	2001478
Date	SEPTEMBER, 2021
CAD File:	GD200147801
Title	GRADING AND DRAINAGE PLAN
Sheet No.	



BEGIN MILLBURY IMPROVEMENTS PROJECT
STA. 100+00
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E: 584520.02

LIMIT OF CONSTRUCTION
STA. 400+05

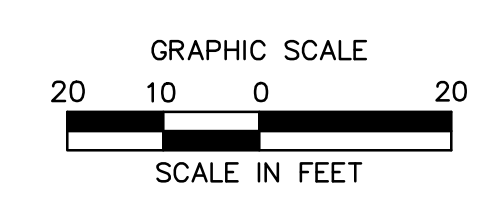
LIMIT OF CONSTRUCTION
STA. 300+50

LIMIT OF CONSTRUCTION
STA. 200+00

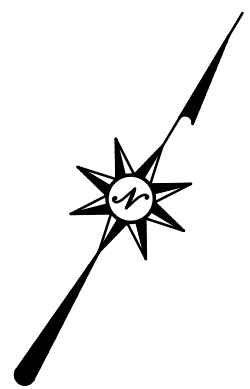
MATCHLINE - SEE SHEET NO. GD-02

LEGEND:

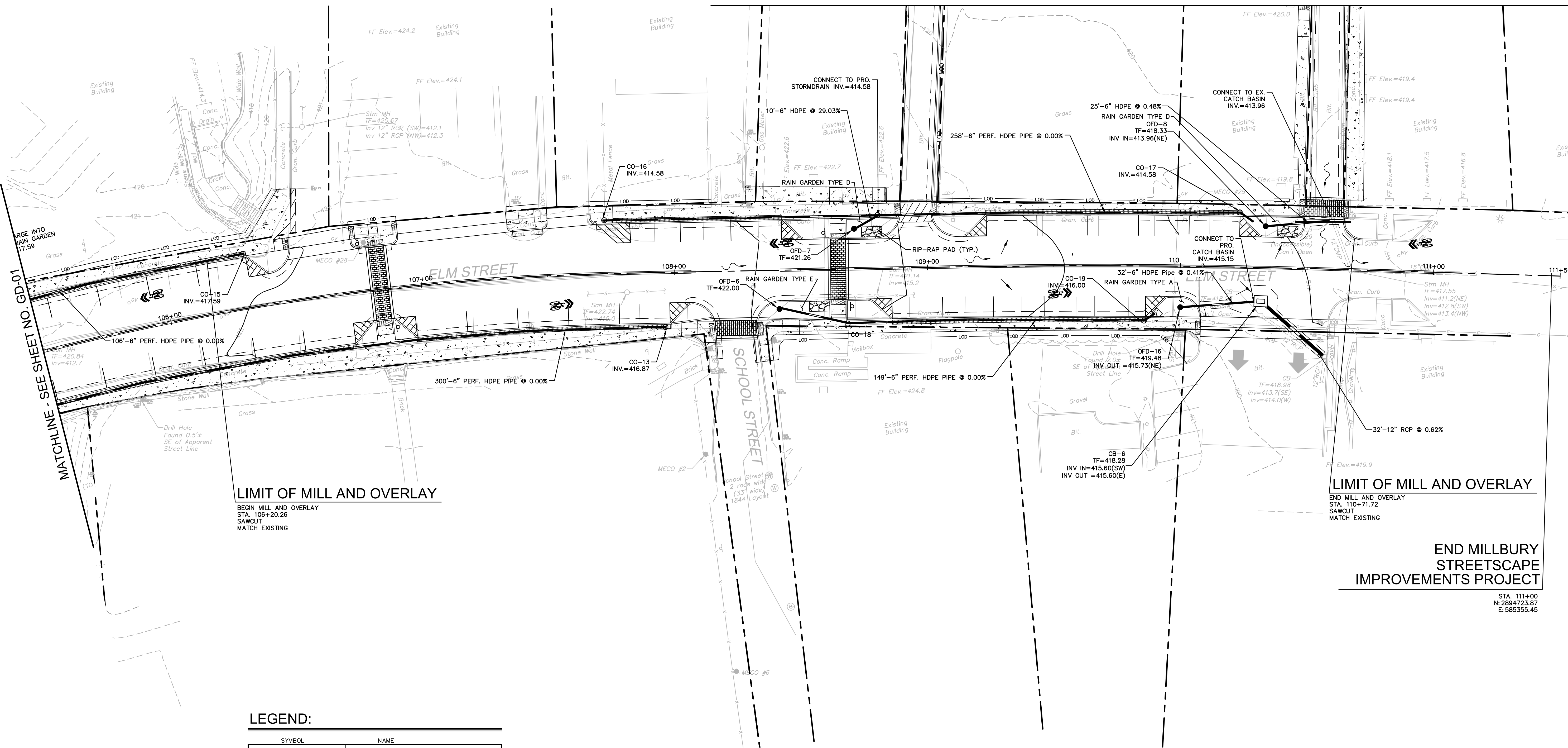
SYMBOL	NAME
	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
	PROPERTY LINE
	CONTOUR LINES (1 FT AND 5 FT INTERVALS)
	SPOT GRADE
	UNDERDRAIN
	CATCH BASIN - SINGLE INLET TYPE CL
	CONCRETE FLARED END SECTION
	STORMWATER DRAINAGE PIPE
	RIP RAP APRON
	DIRECTION OF SHEET FLOW



7/20/2021, 10:45:00 AM, I:\COMPANIES\COM\DESIGN\PROJECTS\2021\1478\GD0201\GD0201.dwg, GD-01



MATCHLINE - SEE SHEET NO. GD-03



LIMIT OF MILL AND OVERLAY
 BEGIN MILL AND OVERLAY
 STA. 106+20.26
 SAWCUT
 MATCH EXISTING

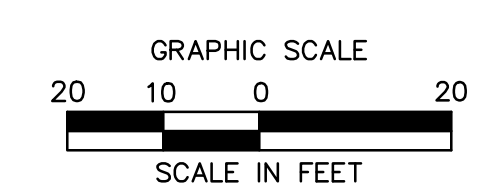
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 END MILL AND OVERLAY
 STA. 110+71.72
 SAWCUT
 MATCH EXISTING

**END MILLBURY
 STREETSCAPE
 IMPROVEMENTS PROJECT**

STA. 111+00
 N: 2894723.87
 E: 585355.45

LEGEND:

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
- - -	PROPERTY LINE
405 404	CONTOUR LINES (1 FT AND 5 FT INTERVALS)
+413.49	SPOT GRADE
- - -	UNDERDRAIN
□	CATCH BASIN - SINGLE INLET TYPE CL
▭	CONCRETE FLARED END SECTION
—	STORMWATER DRAINAGE PIPE
▭	RIP RAP APRON
↔	DIRECTION OF SHEET FLOW



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

MILLBURY DOWNTOWN PHASE 2
 ELM STREET
 MILLBURY, MA

REVISIONS

No.	Date	Desc.

Designed: M.M.
 Drawn: K.A.
 Reviewed: M.M.
 Scale: 1" = 20'
 Project No.: 2001478
 Date: SEPTEMBER, 2021
 CAD File: GD200147801

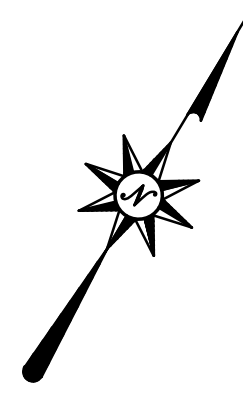
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GRADING AND DRAINAGE PLAN

Sheet No.

GD-02

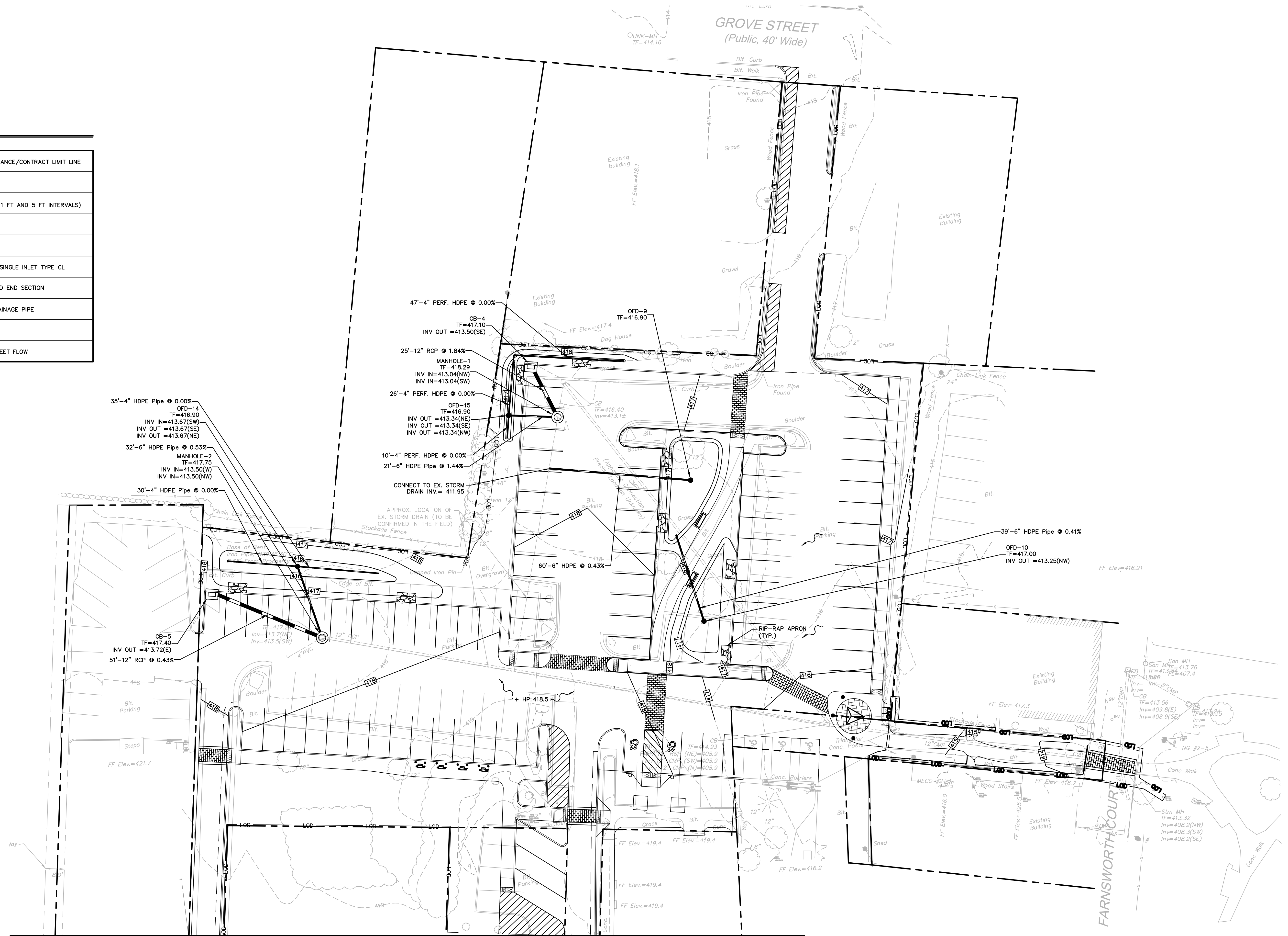
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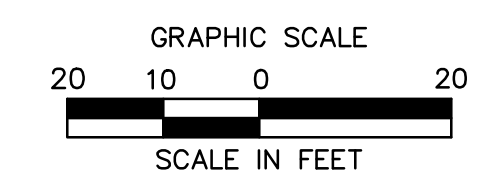


LEGEND:

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
--- ---	CONTOUR LINES (1 FT AND 5 FT INTERVALS)
+	SPOT GRADE
---	UNDERDRAIN
□	CATCH BASIN - SINGLE INLET TYPE CL
▭	CONCRETE FLARED END SECTION
---	STORMWATER DRAINAGE PIPE
▨	RIP RAP APRON
→	DIRECTION OF SHEET FLOW



MATCHLINE - SEE SHEET NO. GD-02



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	No.	Date	Desc.

Designed M.M.
Drawn K.A.
Reviewed M.M.
Scale 1" = 20'
Project No. 2001478
Date SEPTEMBER, 2021
CAD File: GD200147801

GRADING AND DRAINAGE PLAN

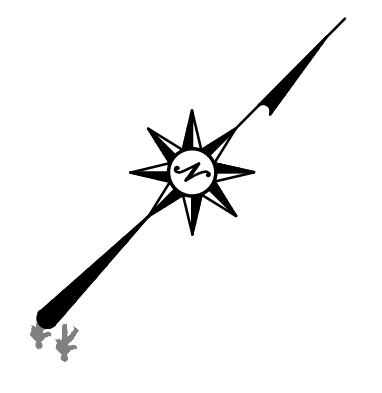
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GD-03

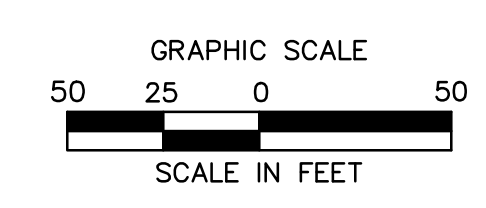
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MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA



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



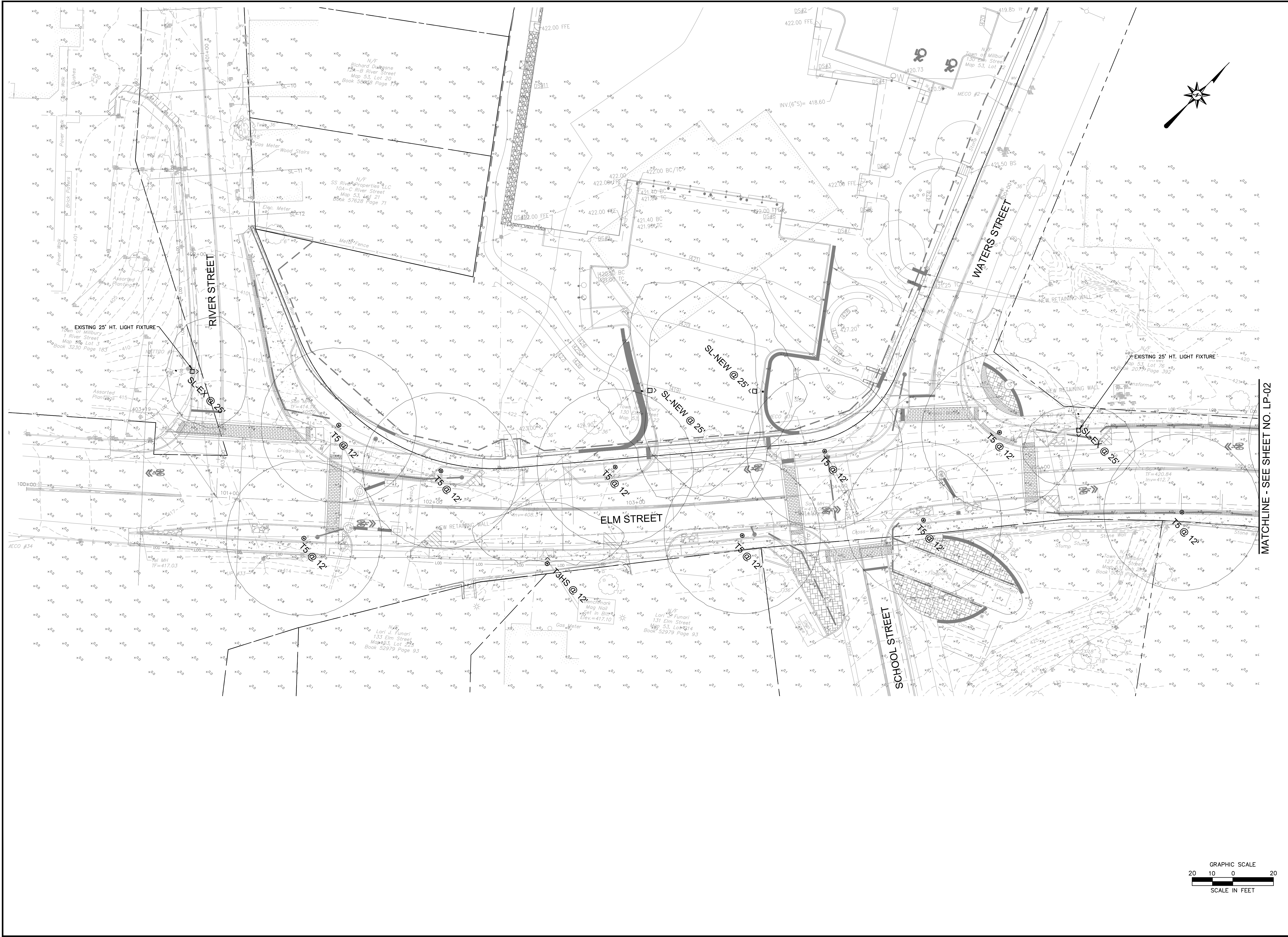
REVISIONS
No. Date Desc.

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

Title
OVERALL LIGHTING PLAN

Sheet No.

LP-00



MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	No.	Date	Desc.

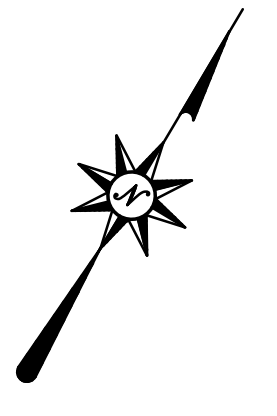
Designed M.M.
Drawn L.M.W.
Reviewed S.D.F.
Scale 1" = 20'
Project No. 2001478
Date SEPTEMBER, 2021
CAD File: LP200147801

Title
LIGHTING PLAN
Sheet No.

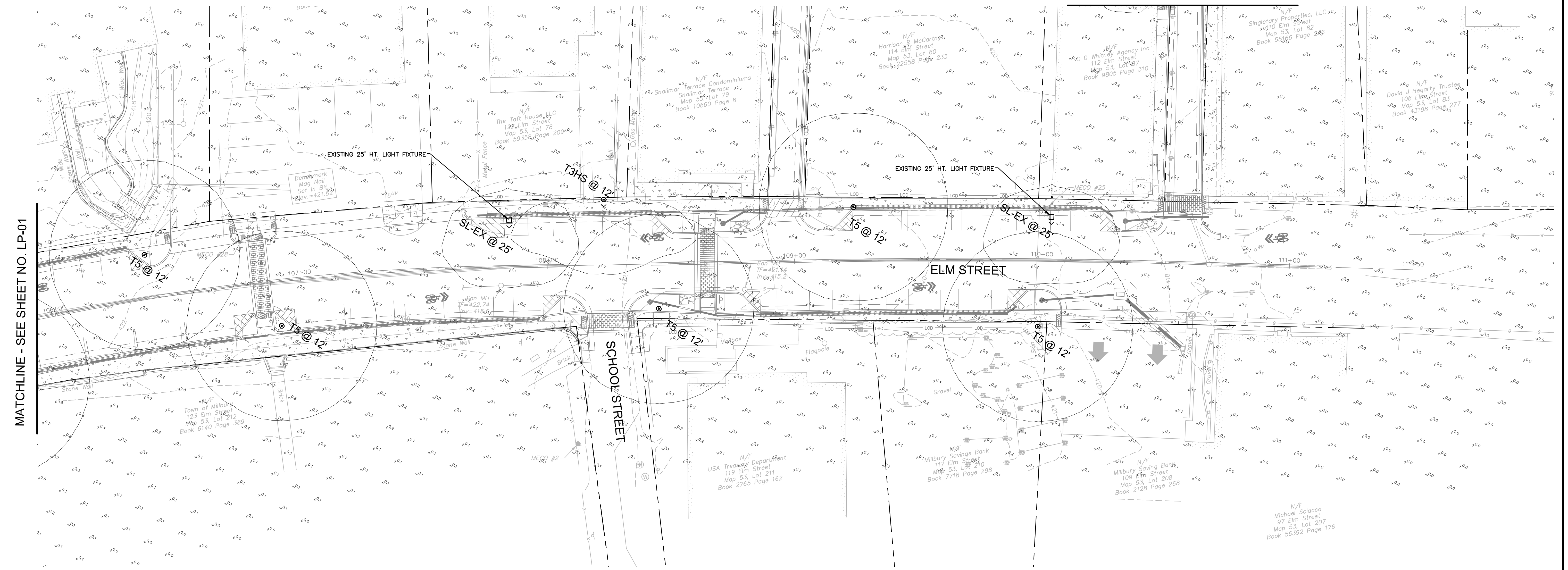
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MATCHLINE - SEE SHEET NO. LP-03



MATCHLINE - SEE SHEET NO. LP-01

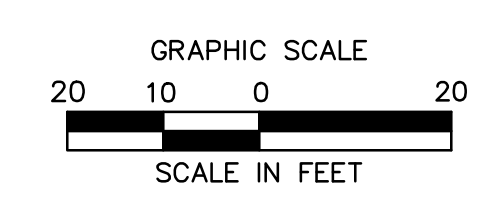
MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	No.	Date	Desc.

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

CAD File: LP200147801
Title
LIGHTING PLAN

Sheet No.



LP-02

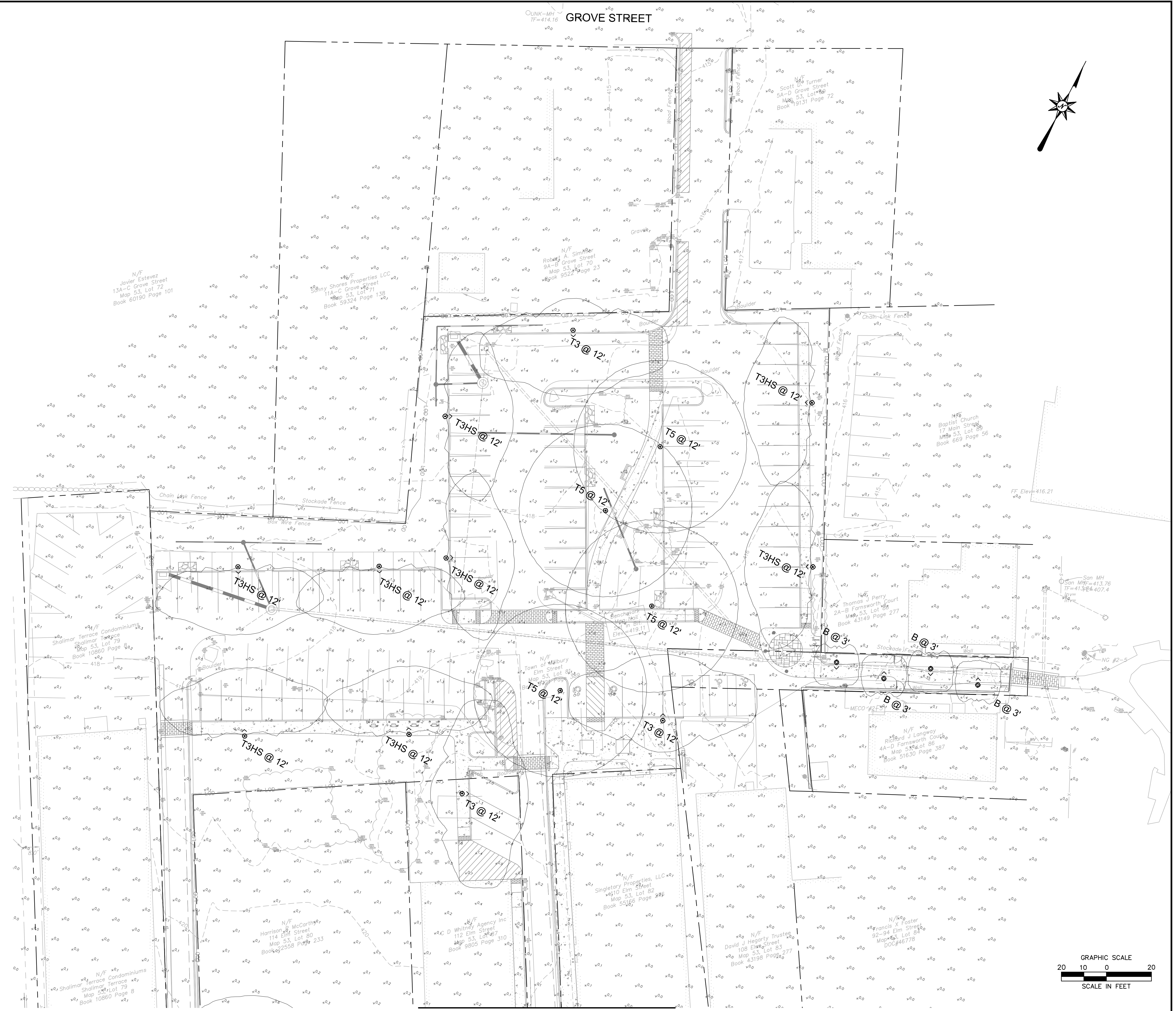
MILLBURY DOWNTOWN PHASE 2
ELM STREET
MILLBURY, MA

REVISIONS	No.	Date	Desc.

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

Title
LIGHTING PLAN
Sheet No.

LP-03



MATCHLINE - SEE SHEET NO. LP-02