

PROPOSED SITE PLAN DOCUMENTS

FOR



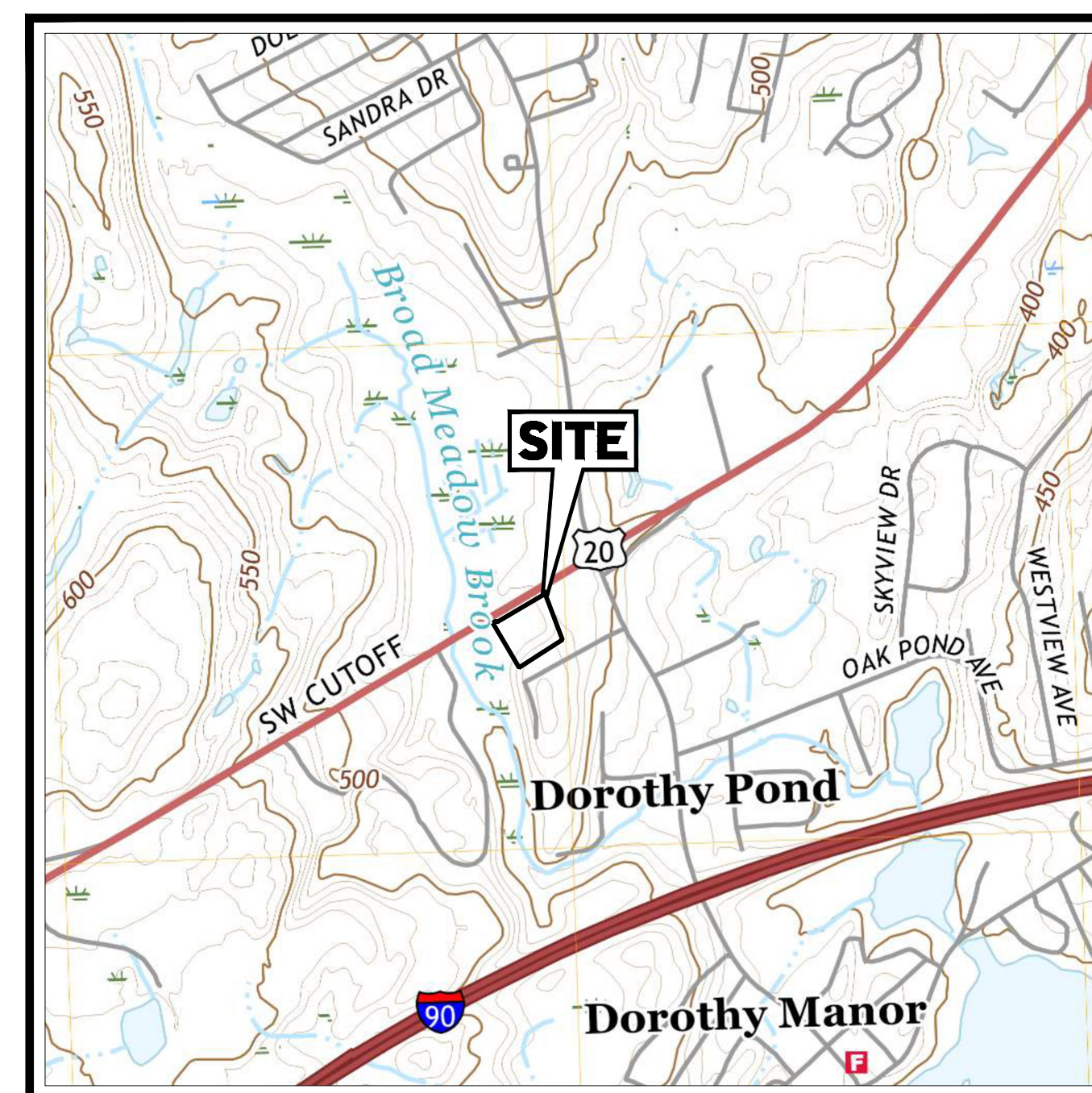
PROPOSED SITE IMPROVEMENTS

LOCATION OF SITE
315-317 SOUTHWEST CUTOFF, CITY OF WORCESTER
WORCESTER COUNTY, MASSACHUSETTS
MAP 45, BLOCK 34, LOT 13

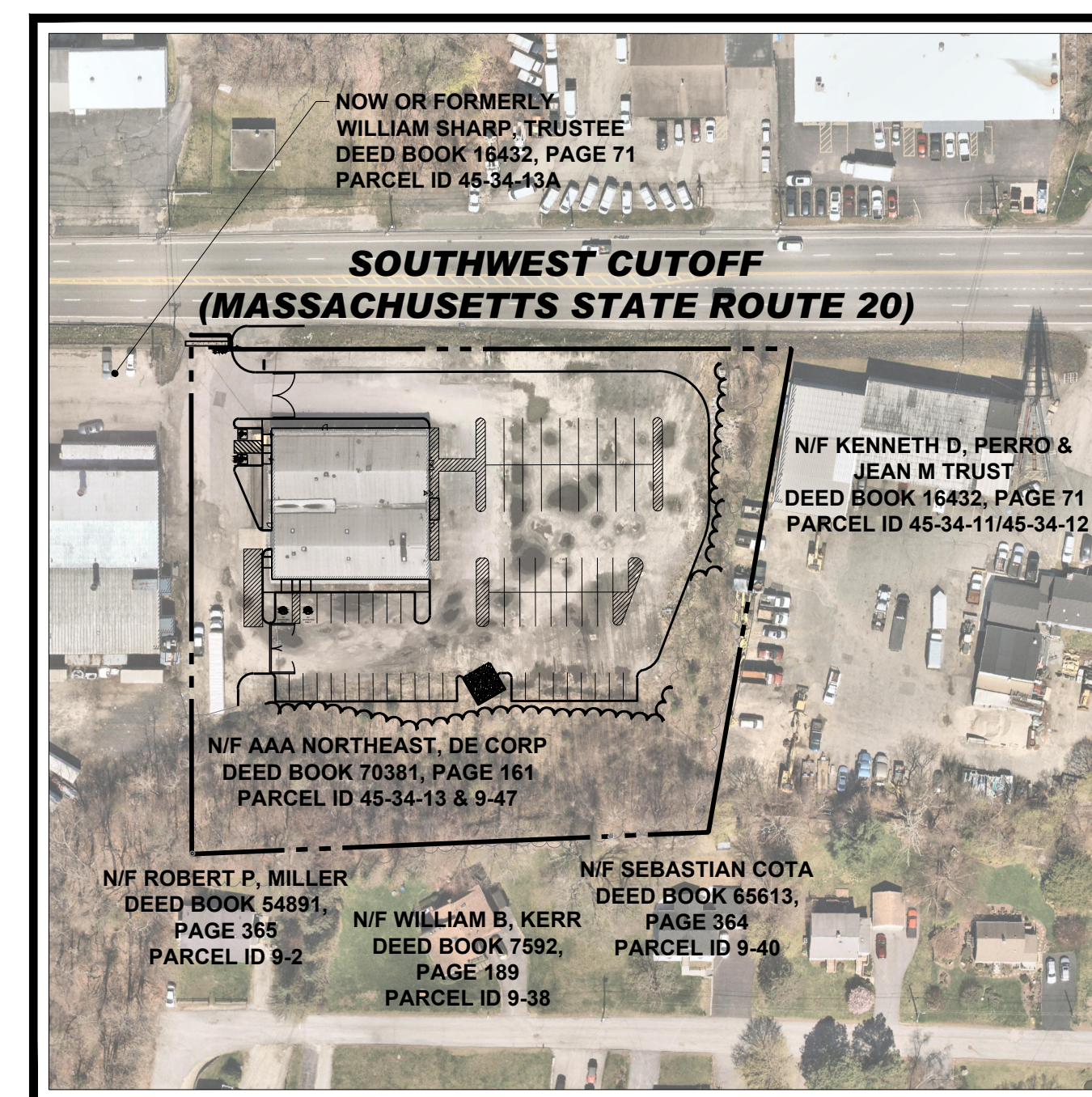
REFERENCES AND CONTACTS

REFERENCES
<ul style="list-style-type: none"> EXISTING CONDITIONS PLAN OF LAND: FELDMAN GEOSPATIAL, 27 MECHANIC STREET, WORCESTER MA, 01608, DATED: 07/01/2024, SURVEY JOB # 2400627-EX, ELEVATIONS: NAVD 1988 ARCHITECTURAL PLAN: VISION 3 ARCHITECTS, 225 CHAPMAN STREET, PROVIDENCE, RI 02905, DATED: 07/19/2024

THE ABOVE REFERENCED DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THESE PLANS. HOWEVER, BOHLER ENGINEERING DOES NOT CERTIFY THE ACCURACY OF THE WORK REFERENCED OR DERIVED FROM THESE DOCUMENTS, BY OTHERS.



USGS MAP
SCALE: 1" = 1,000'
SOURCE: WORCESTER SOUTH, MA USGS QUADRANGLE, 2021



AERIAL MAP
SCALE: 1" = 100'
SOURCE: NEARMAP AERIAL IMAGERY

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SITE CIVIL AND CONSULTING ENGINEERING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
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REVISIONS

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PROJECT No.: MAA230363-00-08
DRAWN BY: SBB
CHECKED BY: CPB/LMD
DATE: 10/02/2024
CAD ID: P-CIVL-CNDS

PROJECT:

SITE DEVELOPMENT PLANS FOR



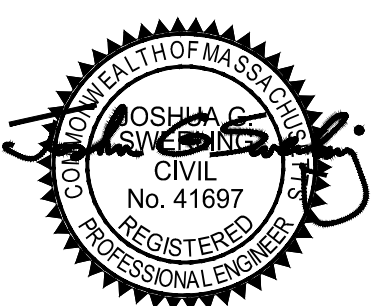
PROPOSED SITE IMPROVEMENTS

MAP: 45 | BLK: 34 | LOT: 13
315-317 SOUTHWEST CUTOFF
WORCESTER COUNTY
WORCESTER, MASSACHUSETTS

BOHLER //

352 TURNPIKE ROAD, 3rd FLOOR
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900

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SHEET TITLE:

COVER SHEET

SHEET NUMBER:

C-101

ORG. DATE - 10/02/2024

GENERAL NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL, STATE AND FEDERAL CODES.

1. THE CONTRACTOR MUST LOCATE AND CLEARLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
2. CONTRACTOR SHALL FIELD LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND IF REQUIRED, DIG EXPLORATORY TEST PITS TO CONFIRM EXACT LOCATION AND DEPTH OF UTILITIES. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER WITH ANY CONFLICTS AS NEEDED TO COORDINATE FINAL LOCATION OF ALL PROPOSED IMPROVEMENTS.
3. CONTRACTOR SHALL INSPECT ALL EXISTING UTILITY STRUCTURES THAT ARE TO REMAIN FOR THE PROJECTS REUSE TO VERIFY SUITABILITY FOR SAME. IF STRUCTURES CAN NOT BE REUSED THEN THE CONTRACTOR SHALL PROVIDE A NEW STRUCTURE. THE CONTRACTOR SHALL COORDINATE SUCH WORK WITH THE APPLICABLE UTILITY PROVIDER.
4. CONTRACTOR TO REMOVE ANY BUILDING FOUNDATION REMAINS OR ASSOCIATED IMPROVEMENTS, DELETERIOUS MATERIALS, AND/OR DEBRIS THAT IMPEDE THE WORK SHOWN ON THESE PLANS.
5. THE CONTRACTOR SHALL REVIEW THE PLANS VERSUS THE LOCATION OF EXISTING STRUCTURES, UTILITIES AND APPURTENANCES IN THE FIELD TO CONFIRM ACCURACY OF SAME AND VERIFY ITEMS TO BE REMOVED. THE CONTRACTOR SHALL CARRY COSTS FOR REMOVAL OF ANY EXISTING STRUCTURES, APPURTENANCES, AND UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO DRAIN, WATER, SEWER, STEAM, IRRIGATION, GAS, TELECOM AND ELECTRIC.
6. THE CONTRACTOR SHALL MAINTAIN, ADJUST OR ABANDON EXISTING MONITORING WELLS IN ACCORDANCE WITH THE DIRECTION OF THE ENVIRONMENTAL CONSULTANT (TYP.).
7. WHERE THE LIMIT OF WORK CONFLICTS WITH PROPERTY LINE, TREE LINE, PROPOSED SAWCUT OR COMBINATION THEREOF IS SHOWN ADJACENT TO THESE FEATURES FOR GRAPHICAL CLARITY.
8. EXISTING TREES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION UNLESS CLEARLY INDICATED OTHERWISE. REASONABLE CARE AND CAUTION SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT DAMAGE AND SELECTIVE PRUNING MAY BE REQUIRED TO ENSURE THAT TREES DO NOT CONFLICT WITH THE DEVELOPMENT.
9. CONTRACTOR SHALL REPAIR/REPLACE ANY TRAFFIC LOOP DETECTORS THAT ARE DAMAGED DURING CONSTRUCTION WITHIN EXISTING OR PROPOSED RIGHTS OF WAYS. ANY SUCH WORK SHALL BE PERFORMED BY A LICENSED / DOT APPROVED SIGNAL CONTRACTOR. ANY DAMAGED LOOPS OR OTHER SIGNAL EQUIPMENT SHALL BE REPAIRED IMMEDIATELY AFTER THE WORK IS COMPLETE. THE SIGNAL CONTRACTOR SHALL BE AVAILABLE TO MAKE ANY TEMPORARY SIGNAL CHANGES IF REQUESTED BY DOT AND/OR THE MUNICIPALITY.
10. THE CONTRACTOR MUST FIELD VERIFY THE LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UNDERGROUND UTILITIES BY USING A TEST PIT TO DETERMINE THE EXACT SIZE, DEPTH AND LOCATION, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. THE CONTRACTOR SHALL LOCATE ANY EXISTING UTILITY SERVICES THAT ARE TO BE TERMINATED AT THE EXISTING MAIN AND/OR PROPERTY LINE. THESE SERVICES ARE TO BE TERMINATED IN ACCORDANCE WITH MUNICIPAL / STATE TRANSPORTATION DEPARTMENT REQUIREMENTS.

SOUTHWEST CUTOFF
(PUBLIC RIGHT-OF-WAY - 80' WIDTH)
(LAYOUT NO. 7223-2 ROUTE 20)

NOW OR FORMERLY
AAA NORTHEAST, DE CORP
DEED BOOK 70381, PAGE 161
PARCEL ID 45-34-13 & 9-47
LOT AREA=
114,450 SQ. FT.
2.63 ACRES

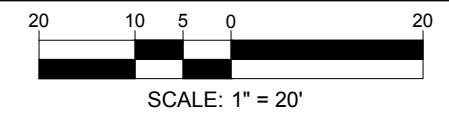
Now or Formerly
KENNETH D. PERRO &
JEAN M TRUST
DEED BOOK 16432, PAGE 71
PARCEL ID 45-34-11/45-34-12

DEMOLITION ABBREVIATIONS

ABBREVIATION	DESCRIPTION
(TBA)	TO BE ABANDONED
(TBR)	TO BE REMOVED
(TBV)	TO BE VACATED
(RELO)	TO BE RELOCATED

CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING UTILITIES ON SITE AND NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION

THIS PLAN TO BE UTILIZED FOR DEMOLITION PURPOSES ONLY



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DATE: 10/02/2024
CAD ID: P-CIVL-PROP

SITE DEVELOPMENT PLANS FOR
AAA
PROPOSED SITE IMPROVEMENTS
MAP: 45 | BLK: 34 | LOT: 13
315-317 SOUTHWEST CUTOFF
WORCESTER COUNTY
WORCESTER, MASSACHUSETTS

BOHLER
352 TURNPIKE ROAD, 3rd FLOOR
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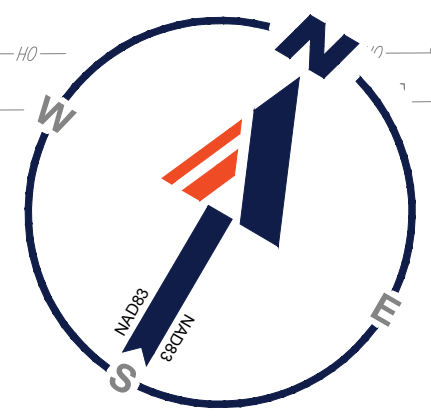
OSHA
REGISTERED PROFESSIONAL ENGINEER
No. 41697

SHEET TITLE:
EXISTING CONDITIONS/ DEMOLITION PLAN

SHEET NUMBER:
C-201

ORG. DATE - 10/02/2024

I:\BOHLER\NET\SHARED\MAA\PROJECTS\2023\MAA230363\00-0B\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\CIVIL PROP\MAA230363-00-0B-LAYOUT C-201 EXDM



SOUTHWEST CUTOFF

(PUBLIC RIGHT-OF-WAY - 80' WIDTH)
(LAYOUT NO. 7223-2 ROUTE 20)

ZONING TABLE

ZONE: M.G. - 2.0 GENERAL
USE: OFFICE SPACE AND VEHICLE STORAGE
MAP: 45 BLOCK: 34 LOT: 13

APPLICANT/ OWNER INFORMATION

PROPERTY OWNER:

AAA NORTHEAST, DE CORP
110 ROYAL LITTLE DRIVE
PROVIDENCE, RI 02904

BULK REQUIREMENTS

ITEM	CODE	PERMITTED	EXISTING	PROPOSED
FRONT YARD	TABLE 4.2	15.0'	60.7'	NO CHANGE
REAR YARD	TABLE 4.2	15.0'	170.2'	NO CHANGE
MAX FAR	TABLE 4.2	2 TO 1	TBD	NO CHANGE
BUILDING COVERAGE	TABLE 4.2	N/A	8.7%	8.7%

KEY = VARIANCE REQUIRED

PARKING REQUIREMENTS

ITEM	CODE	PERMITTED	EXISTING	PROPOSED
MIN STALL SIZE	TABLE 4.4	9.0' X 18.0'	-	9.0' X 18.0'
MIN AISLE WIDTH	TABLE 4.4	24.0'	-	24.0'
PARKING SETBACK	§IV-7	5.0'	-	14.5'
LOADING REQUIREMENTS	TABLE 4.5	1 SPACE	1 SPACE	0 SPACES
MIN LOADING SIZE	TABLE 4.5	12.0' X 50.0'	-	12.0' X 50.0'
MIN NUMBER OF STALLS	TABLE 4.4	34 SPACES	-	68 SPACES

BANK WITH DRIVE THRU:
REQUIRED FOR OFFICE USE = 1 SPACE PER 300 SF GROSS FLOOR AREA = 9,908 SF / 300 SF = ~ 34 SPACES

KEY = VARIANCE REQUIRED

MASSACHUSETTS SITE NOTES

(REV. 5/2024)

- WHEN APPLICABLE, OWNER/ OPERATOR MUST FILE THE NOI FOR NPDES PERMITS AT APPROPRIATE AND/OR REQUIRED TIME FRAMES BASED UPON THE DESIRED START OF CONSTRUCTION. LAND DISTURBING ACTIVITIES MUST NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED FROM GOVERNING AUTHORITIES (INCLUDING STORMWATER POLLUTION PREVENTION PLAN). THE CONTRACTOR MUST STRICTLY ADHERE TO THE APPROVED SWPPP PLAN DURING CONSTRUCTION OPERATIONS (IF PROVIDED).
- ALL CONCRETE MUST BE AIR ENTRAINED AND INCLUDE THE MINIMUM COMPRESSIVE STRENGTH OF JURISDICTIONAL STANDARD PSI AT 28 DAYS (OR 4,000 PSI UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLANS, DETAILS AND GEOTECHNICAL REPORT THEN THE GEOTECHNICAL REPORT SHALL GOVERN.
- THE CONTRACTOR MUST FILE SITE SIGNAGE APPLICATION OR PERMIT UNDER SEPARATE APPLICATION UNLESS DONE SO AS PART OF JURISDICTIONAL PERMITTING PROCEDURES.
- THE CONTRACTOR MUST REPAIR OR REPLACE, AT THE CONTRACTOR'S SOLE COST AND EXPENSE, ALL SIDEWALKS, CURBS, PAVEMENT MARKINGS, AND PAVEMENT DAMAGED BY CONSTRUCTION ACTIVITIES WHETHER SPECIFIED ON THIS PLAN OR NOT. STANDARDS OF THE DEPARTMENT OF PUBLIC WORKS, ENGINEERING DEPARTMENT, HIGHWAY DIVISION, AND/OR STATE DOT HIGHWAY DEPARTMENT.
- WHERE RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL WIDTHS DO NOT REPRESENT THE ACTUAL WIDTH OF THE PROPOSED WALL, RATHER THEY ARE AN ASSUMPTION BASED ON WALL TYPE AND WALL HEIGHT. WALL FOOTINGS AND/OR FOUNDATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET DETERMINED BY THE CONTRACTOR OR WALL DESIGNER, AND MUST BE SET BASED UPON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS. THE CONTRACTOR MUST ENSURE THAT AN APPROPRIATELY LICENSED PROFESSIONAL DESIGNER ALL WALLS SHOWN HEREON AND PRIOR TO CONSTRUCTION. REFER TO GRADING NOTES REGARDING RETAINING WALL DESIGN.
- CONTRACTOR IS CAUTIONED OF EXISTING UTILITY SERVICES TO REMAIN IN PROXIMITY TO PROPOSED BOLLARDS AND SIGNS. CONTRACTOR SHALL PROVIDE FIELD MODIFICATION LOCATIONS OF BOLLARDS AND BOLLARDS WITH SIGNAGE AS NEEDED TO AVOID CONFLICTS WITH EXISTING UTILITY SERVICES TO REMAIN.

MASSACHUSETTS ACCESSIBILITY DESIGN GUIDELINES

(REV. 5/2024)

- IN ADDITION TO THE ACCESSIBILITY DESIGN GUIDELINES ON SHEET C-102, THE CONTRACTOR MUST ALSO ENSURE THAT ALL ACCESSIBLE COMPONENTS AND ACCESSIBLE ROUTES ARE CONSTRUCTED IN STRICT ACCORDANCE WITH THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REGULATIONS 821 CMR. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, OF ANY DISCREPANCIES BETWEEN THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE AND STATE BUILDING CODE AS IT RELATES TO ANY ACCESSIBLE IMPROVEMENTS BEING CONSTRUCTED PRIOR TO COMMENCING THE WORK.

REVISIONS

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PROJECT No.: MAA230363-00-B
 DRAWN BY: SBB
 CHECKED BY: CPB/LMD
 DATE: 10/02/2024
 CAD ID: P-CIVL-PROP

SITE DEVELOPMENT PLANS FOR



PROPOSED SITE IMPROVEMENTS
 MAP: 45 | BLK: 34 | LOT: 13
 315-317 SOUTHWEST CUTOFF
 WORCESTER COUNTY
 WORCESTER, MASSACHUSETTS

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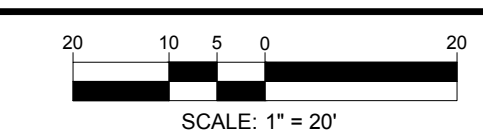


SITE PLAN

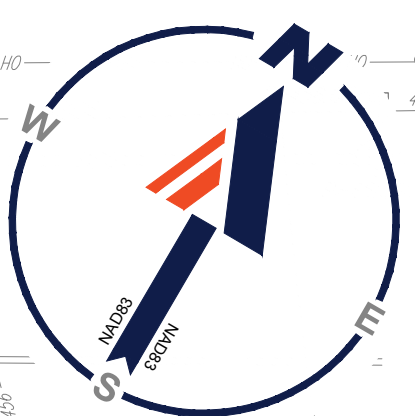
SHEET NUMBER:
C-301

ORG. DATE - 10/02/2024

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY



I:\BOHLER\NET\SHARED\MAA\PROJECTS\2023\MAA230363-00-B\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLAN\PROP-MAA230363-00-B-LAYOUT-C-301 SITE



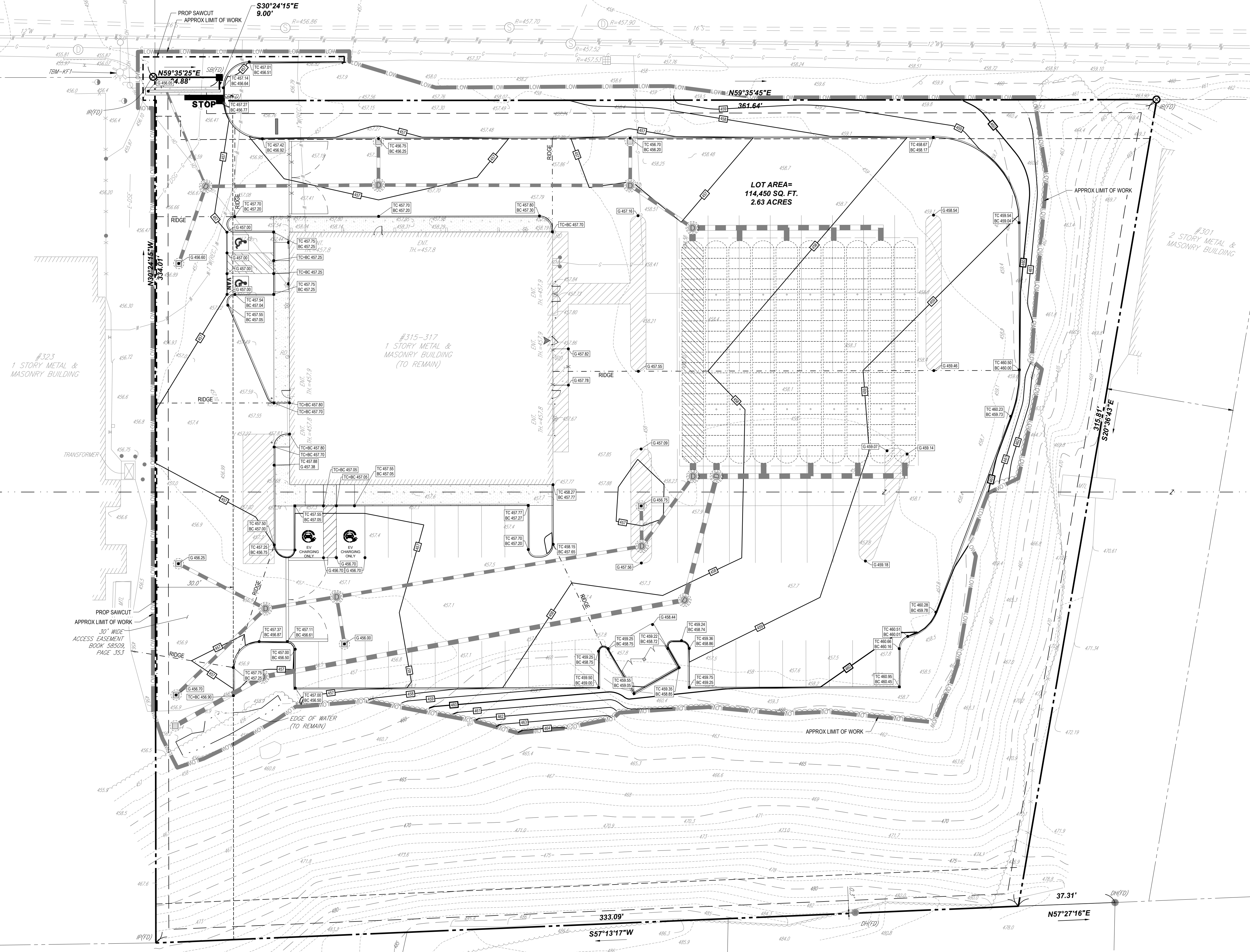
SOUTHWEST CUTOFF

(PUBLIC RIGHT-OF-WAY - 80' WIDTH)
(LAYOUT NO. 7223-2 ROUTE 2)

MASSACHUSETTS GRADING NOTES

(REV 5/2024)

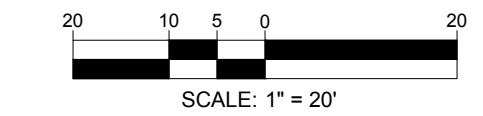
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4" ABOVE PAVEMENT GRADE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR MUST CONFIRM AND ENSURE THAT AS CONSTRUCTED IMPROVEMENTS CREATE THE FOLLOWING MINIMUM SLOPES (EXCEPT WHERE ADA REQUIREMENTS LIMIT THEM): 1.0% ON ALL CONCRETE SURFACES, 1.5% ON ASPHALT SURFACES, 1.5% IN LANDSCAPED AREAS AND 0.15% SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS TO PROVIDE POSITIVE DRAINAGE.
- WHERE RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL ELEVATIONS (G & GL) REPRESENT THE PROPOSED FINISHED GRADE AT THE FACE OF THE TOP AND THE BOTTOM OF THE WALL AND DO NOT REPRESENT THE OVERALL HEIGHT OF THE WALL TO ITS EXTENTS (I.E. ANY CAP UNITS OR COURSES BELOW GRADE, INCLUDING FOOTINGS ARE EXCLUDED). WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR OR WALL DESIGNER, AND MUST BE SET BASED UPON FINAL STRUCTURAL DESIGN SHOWN PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS. THE CONTRACTOR MUST ENSURE THAT THERE ARE NO UTILITIES ON THE PASSIVE SIDE OF THE RETAINING WALL. NO EXCAVATION MAY BE PERFORMED ON THE PASSIVE SIDE OF THE RETAINING WALL WITHOUT APPROPRIATELY AND SAFELY SUPPORTING THE WALL IN ACCORDANCE WITH THE STANDARD OF CARE AND ALL APPLICABLE RULES, REGULATIONS, CODES, ORDINANCES, LAWS AND STATUTES.
- USE OR GRAVITY BLOCK WALLS SHALL BE CONSTRUCTED SUCH THAT UPON COMPLETION OF CONSTRUCTION THERE IS NO UNFINISHED SURFACE OR LIFTING RINGS VISIBLE (E.G. USE OF FINISHED TOP BLOCK OR CAP STONES).
- STORMWATER RUNOFF WITHIN PROPERTY MUST BE COLLECTED ON-SITE WITH NO OVERLAND RUNOFF ONTO THE RIGHT-OF-WAY OR ADJACENT PROPERTIES TO THE MAXIMUM EXTENT POSSIBLE OR IN THE MANNER SHOWN ON THE CONSTRUCTION DRAWINGS. STORMWATER RUNOFF ONTO ADJACENT PROPERTIES SHALL BE CONTROLLED AS TO NOT ADVERSELY IMPACT SAID PROPERTIES.
- BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS WITH THEIR INTENDED FOR STRUCTURAL USES TO THE GEOTECHNICAL ENGINEER OF RECORD.
- REFER TO GENERAL NOTES SHEET FOR ADDITIONAL ADA GUIDELINES AND REQUIREMENTS.
- FOR ALL RETAINING WALLS 4 FEET OR GREATER IN HEIGHT.
1. THE OWNER OR THE OWNERS CONTRACTOR IS TO PROVIDE A SITE-SPECIFIC RETAINING WALL DESIGN PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED (E.G. STRUCTURAL ENGINEER) IN THE STATE WHERE THE CONSTRUCTION OCCURS. SOIL TYPES, WATER TABLE ELEVATION, EXISTING & PROPOSED SURROUNDING IMPROVEMENTS/CONDITIONS (INCLUDING BUT NOT LIMITED TO SLOPES, DRIVE AISLES, ROADS, FENCING, GUIDELINES, UTILITIES, DRAINAGE FACILITIES, STRUCTURES, FOUNDATIONS), LIVE LOADS AND OTHER SITE AMENITIES THAT COULD HAVE AN INFLUENCE OR IMPACT ON THE RETAINING WALL(S) CONSTRUCTABILITY AND/OR LONGEVITY SHALL BE CONSIDERED AND INCORPORATED INTO THE RETAINING WALL DESIGN AS WELL AS THE GLOBAL STABILITY ANALYSIS.
2. PEER REVIEW AND GLOBAL STABILITY ANALYSIS OF THE RETAINING WALL DESIGN MUST BE COMPLETED BY THE OWNERS GEOTECHNICAL ENGINEER TO CERTIFY THE DESIGN MEETS INDUSTRY STANDARDS FOR FACTOR OF SAFETY. SOIL TYPES, WATER TABLE ELEVATION AND DESIGN PROPERTIES AS NOTED ABOVE SHALL BE FIELD CONFIRMED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO WALL CONSTRUCTION.
- CONTRACTOR SHALL INSTALL CONCRETE CURBS ALONG FACE OF BUILDING WALL AS SHOWN TO PROVIDE CONSISTENT WIDTH ALONG LENGTH OF PROPOSED ACCESSIBLE RAMP AND RAMP LANDING TO MEET ADA/ABR REQUIREMENTS.
- CONTRACTOR SHALL REVIEW RETAINING WALL LOCATIONS VERSUS APPLICABLE STATE AND LOCAL CODES AND PROVIDE FALL PROTECTION (E.G. FENCING OR RAILING) IN ACCORDANCE WITH SAID CODE.
- CONTRACTOR SHALL COORDINATE WITH OWNER/OPERATOR TO REVIEW EXISTING DEPRESSIONS WITHIN EXISTING PAVEMENT AREAS TO REMAIN AND SHALL CONFIRM THAT THE SCOPE OF WORK SHALL PROVIDE POSITIVE DRAINAGE BY FIXING ANY EXISTING AREAS OF PONDING.
- BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS WITH THEIR INTENDED FOR STRUCTURAL USES TO THE GEOTECHNICAL ENGINEER OF RECORD.



PROP SAWCUT APPROX LIMIT OF WORK
30' WIDE ACCESS EASEMENT BOON 585/02 PAGE 35.3

WORCESTER MILLBURY

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY



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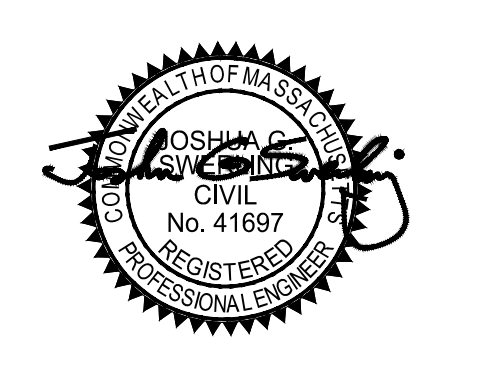
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CAD ID: P-CIVL-GRDR

SITE DEVELOPMENT PLANS
FOR
AAA
PROPOSED SITE IMPROVEMENTS

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315-317 SOUTHWEST CUTOFF
WORCESTER COUNTY
WORCESTER, MASSACHUSETTS

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Phone: (508) 480-9900
www.BohlerEngineering.com



SHEET TITLE:
GRADING PLAN

SHEET NUMBER:
C-401

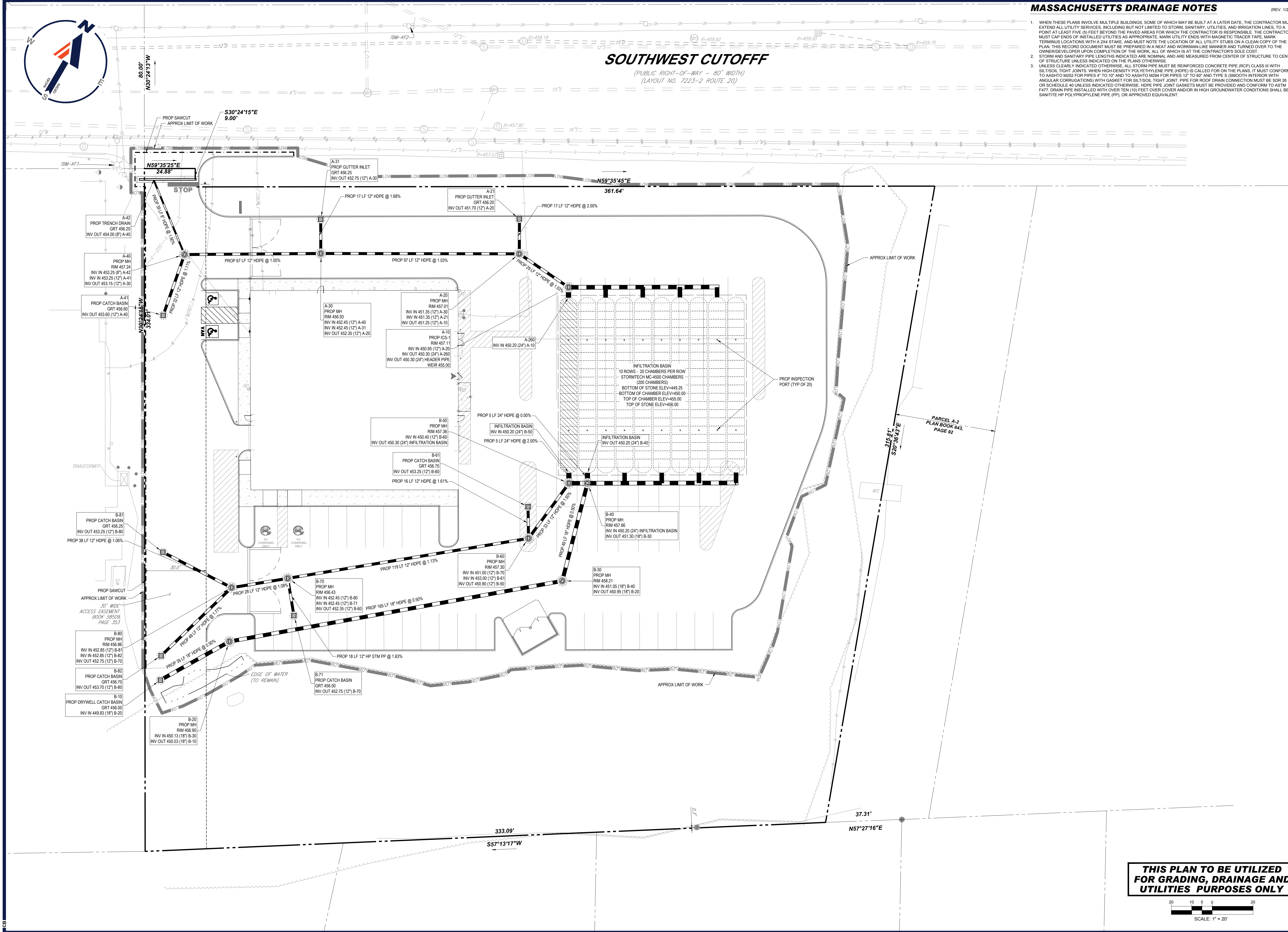
ORG. DATE - 10/02/2024

I:\BOHLER\NET\SHARED\MAA\PROJECTS\2023\MAA230363-00\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLAN\SP-CIVL-GRDR-MAA230363-00-0B-01-LAYOUT C-401-GRAD

1. WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL UTILITY SERVICES, INCLUDING BUT NOT LIMITED TO STORM, SANITARY, UTILITIES, AND IRRIGATION LINES, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. THE CONTRACTOR MUST CAP ENDS OF INSTALLED UTILITIES AS APPROPRIATE. MARK UTILITY ENDS WITH MAGNETIC TRACER TAPE. MARK TERMINUS LOCATIONS WITH A 2x4 STAKE, AND MUST NOTE THE LOCATION OF ALL UTILITY STUBS ON A CLEAN COPY OF THE PLAN. THIS RECORD DOCUMENT MUST BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE WORK. ALL OF WHICH IS AT THE CONTRACTOR'S SOLE COST.
2. STORM AND SANITARY PIPE LENGTHS INDICATED ARE NOMINAL AND ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS INDICATED ON THE PLANS OTHERWISE.
3. UNLESS CLEARLY INDICATED OTHERWISE, ALL STORM PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT/SOIL TIGHT JOINTS. WHEN HIGH-DENSITY POLYETHYLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS, IT MUST CONFORM TO ASTM D2658 FOR PIPES 4" TO 18" AND TO ASTM D2658 FOR PIPES 12" TO 60" AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRUGATIONS) WITH GASKET FOR SILT/SOIL TIGHT JOINT. PIPE FOR ROOF DRAIN CONNECTION MUST BE SDR 26 PVC OR SCHEDULE 40 UNLESS INDICATED OTHERWISE. HDPE PIPE JOINT GASKETS MUST BE PROVIDED AND CONFORM TO ASTM F477. DRAIN PIPE INSTALLED WITH OVER TEN (10) FEET OVER COVER AND/OR IN HIGH GROUNDWATER CONDITIONS SHALL BE SANITITE HP POLYPROPYLENE PIPE (PP), OR APPROVED EQUIVALENT.

SOUTHWEST CUTOFF

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(LAYOUT NO. 7223-2 ROUTE 20)



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CHECKED BY: CPB/LMD
DATE: 10/02/2024
CAD ID: P-CIVL-CRDR

SITE DEVELOPMENT PLANS
FOR

PROPOSED SITE IMPROVEMENTS

MAP: 45 | BLK: 34 | LOT: 13
315-317 SOUTHWEST CUTOFF
WORCESTER COUNTY
WORCESTER, MASSACHUSETTS

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REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE:
DRAINAGE PLAN

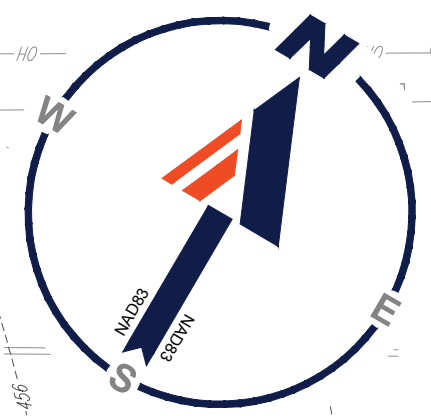
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C-402

ORG. DATE - 10/02/2024

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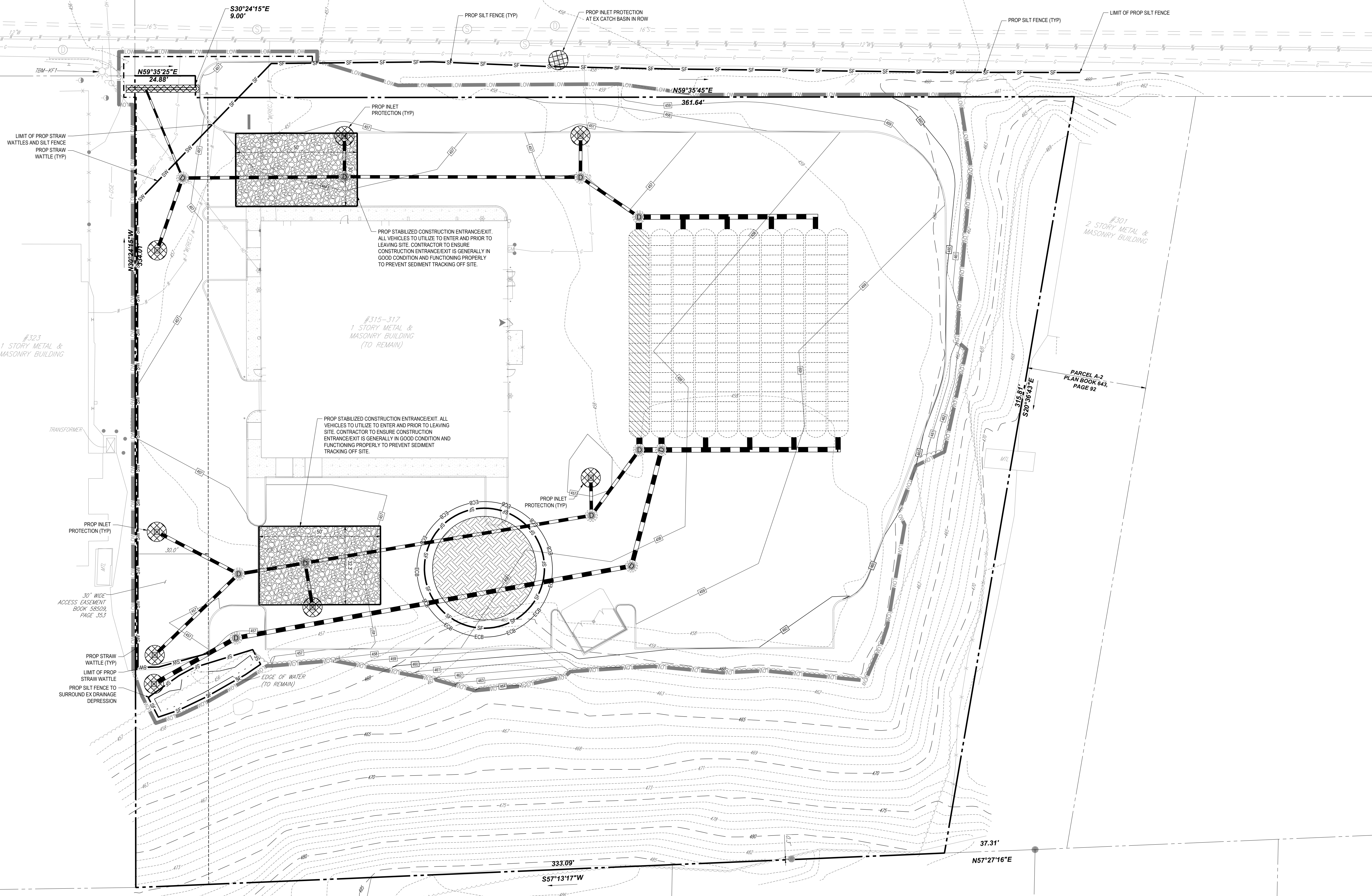
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SOUTHWEST CUTOFF

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(LAYOUT NO. 7223-2 ROUTE 20)



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AAA

PROPOSED SITE IMPROVEMENTS
FOR
SITE DEVELOPMENT PLANS

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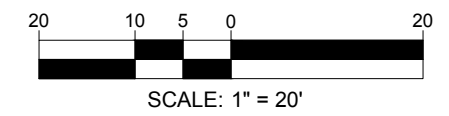


SHEET TITLE:
SOIL EROSION AND SEDIMENT CONTROL PLAN

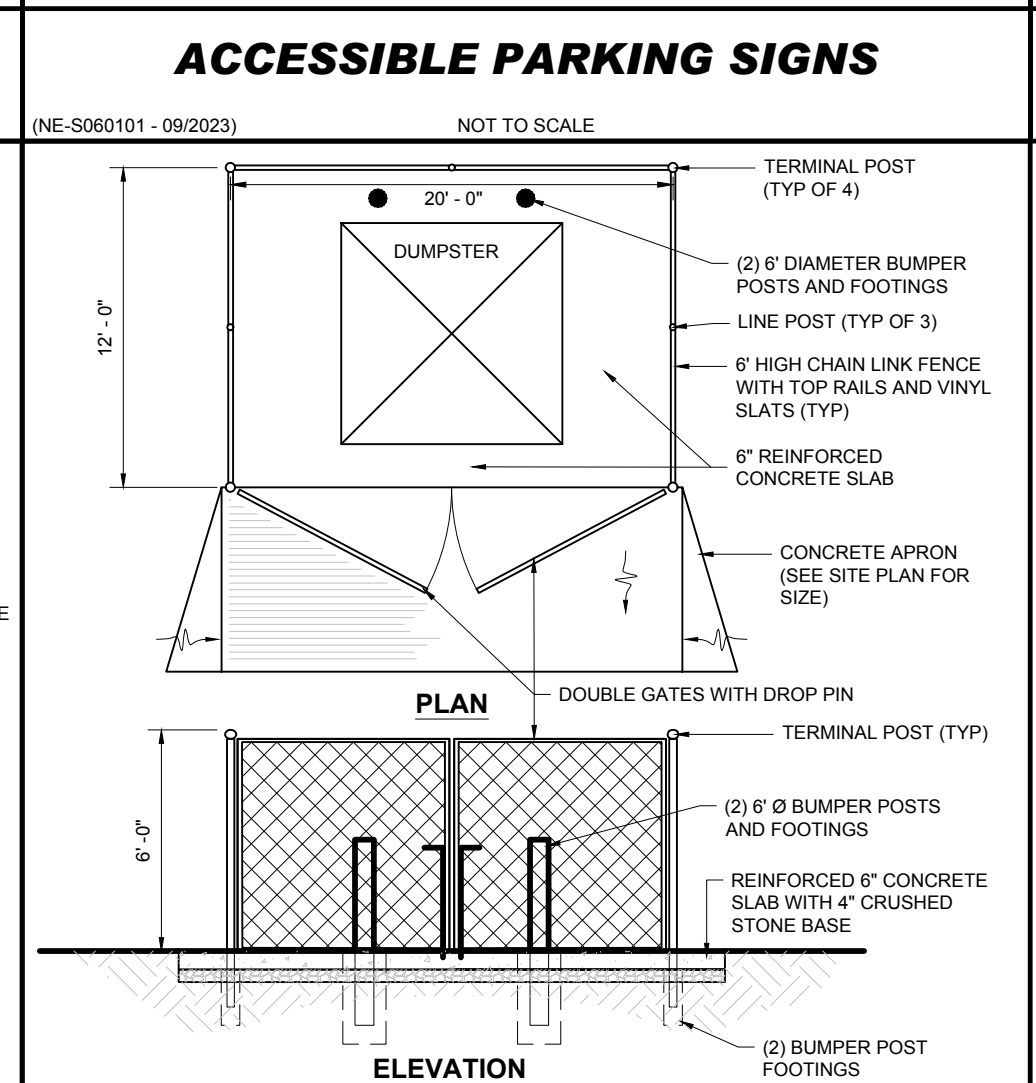
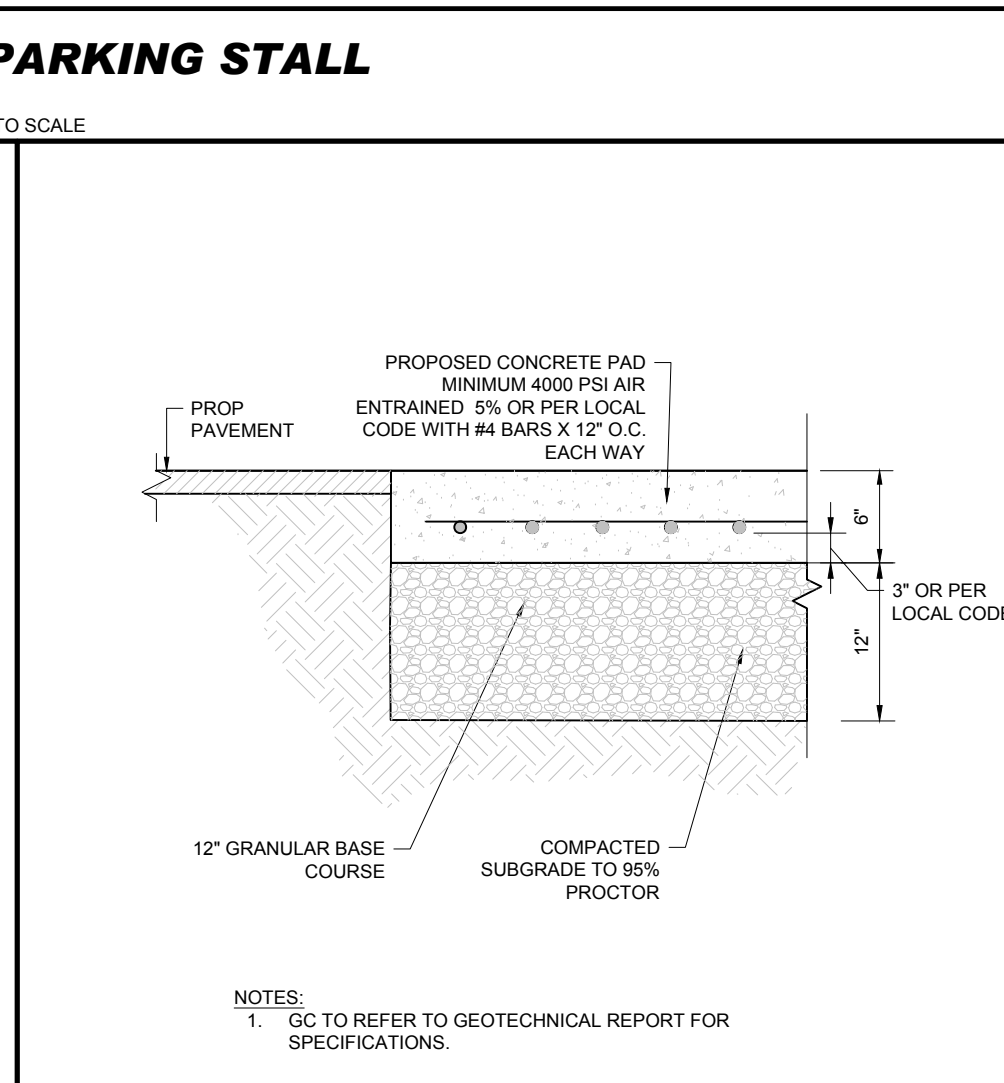
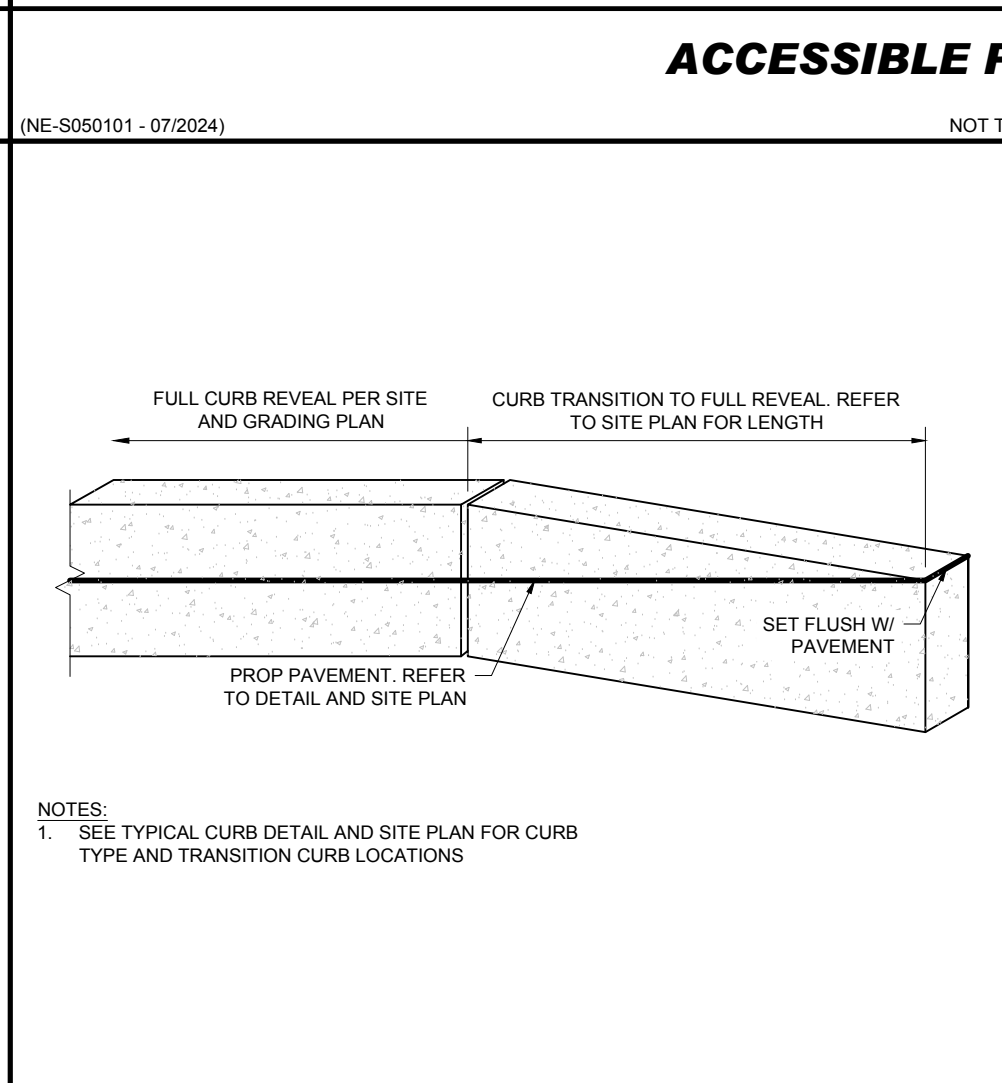
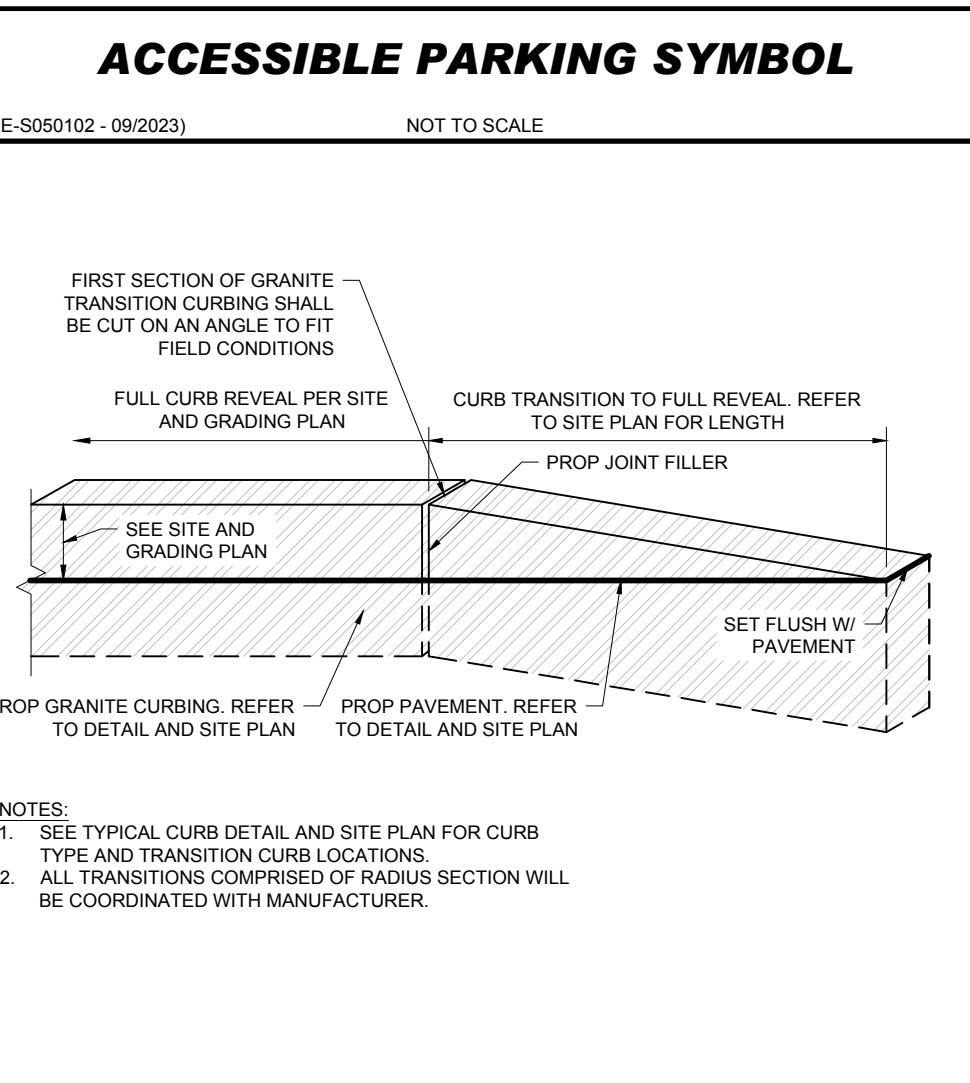
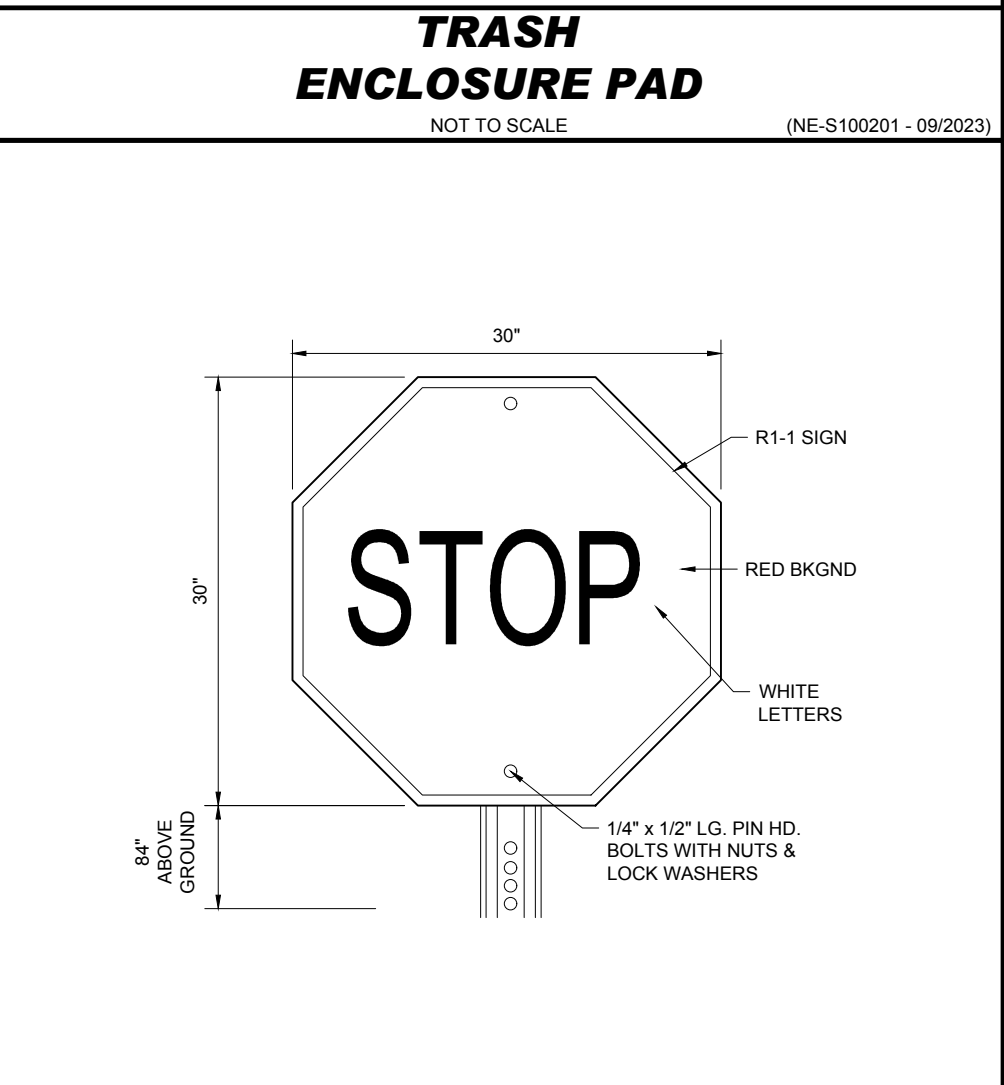
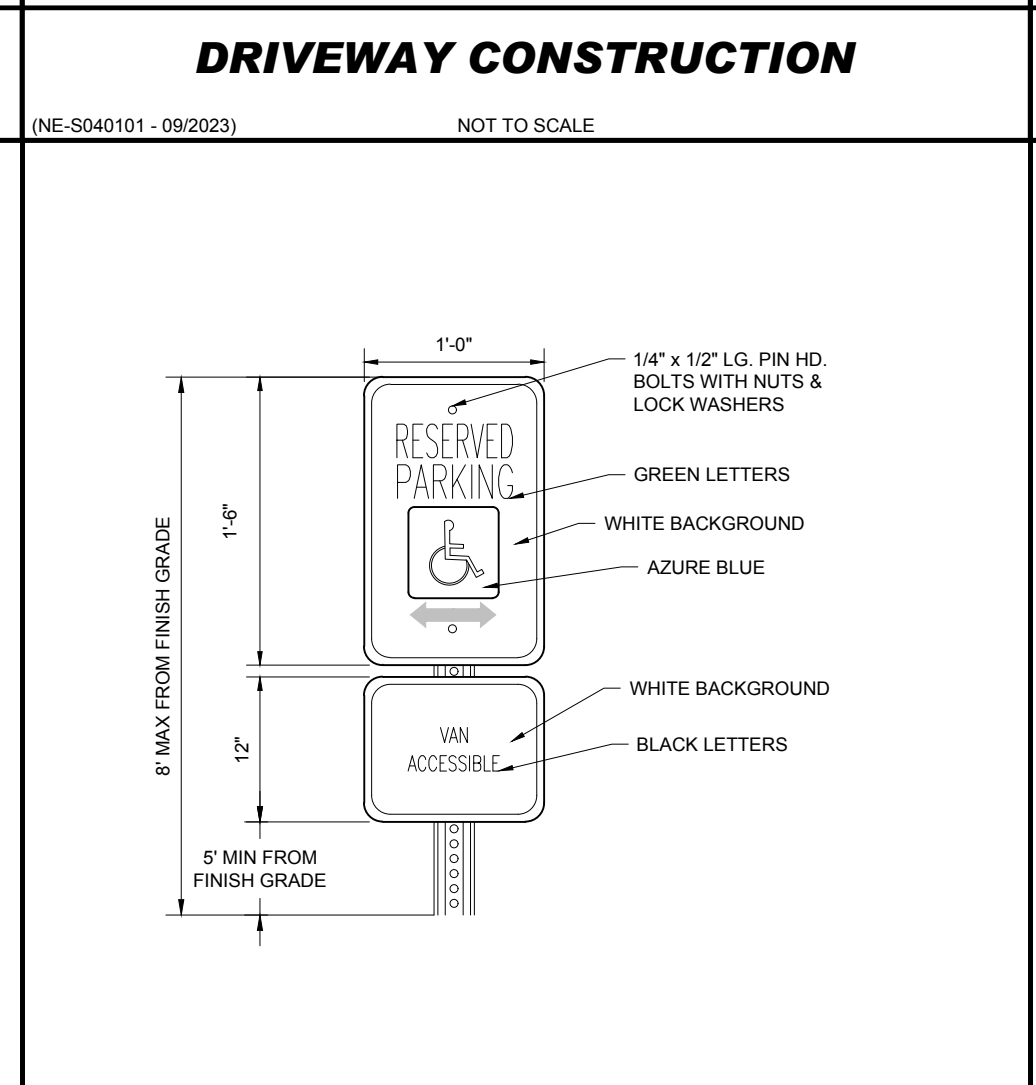
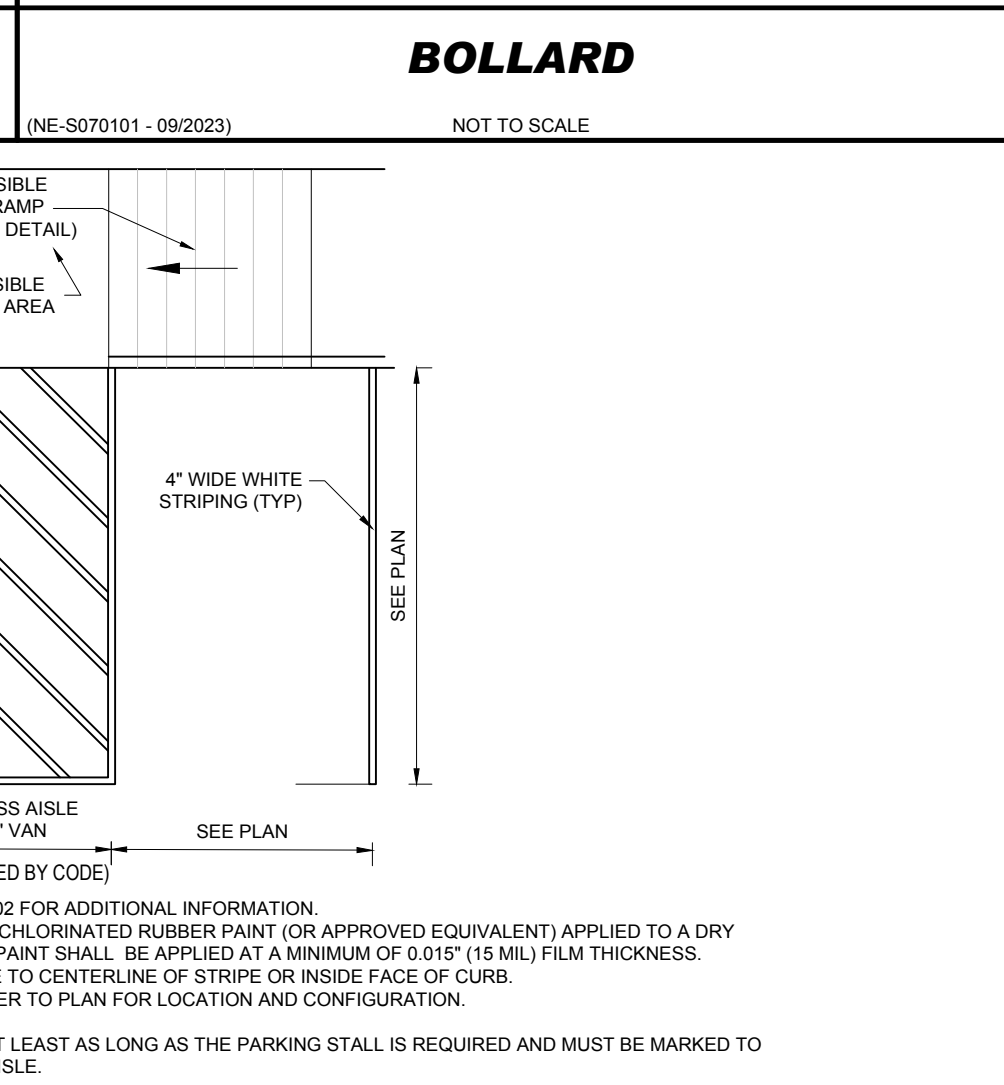
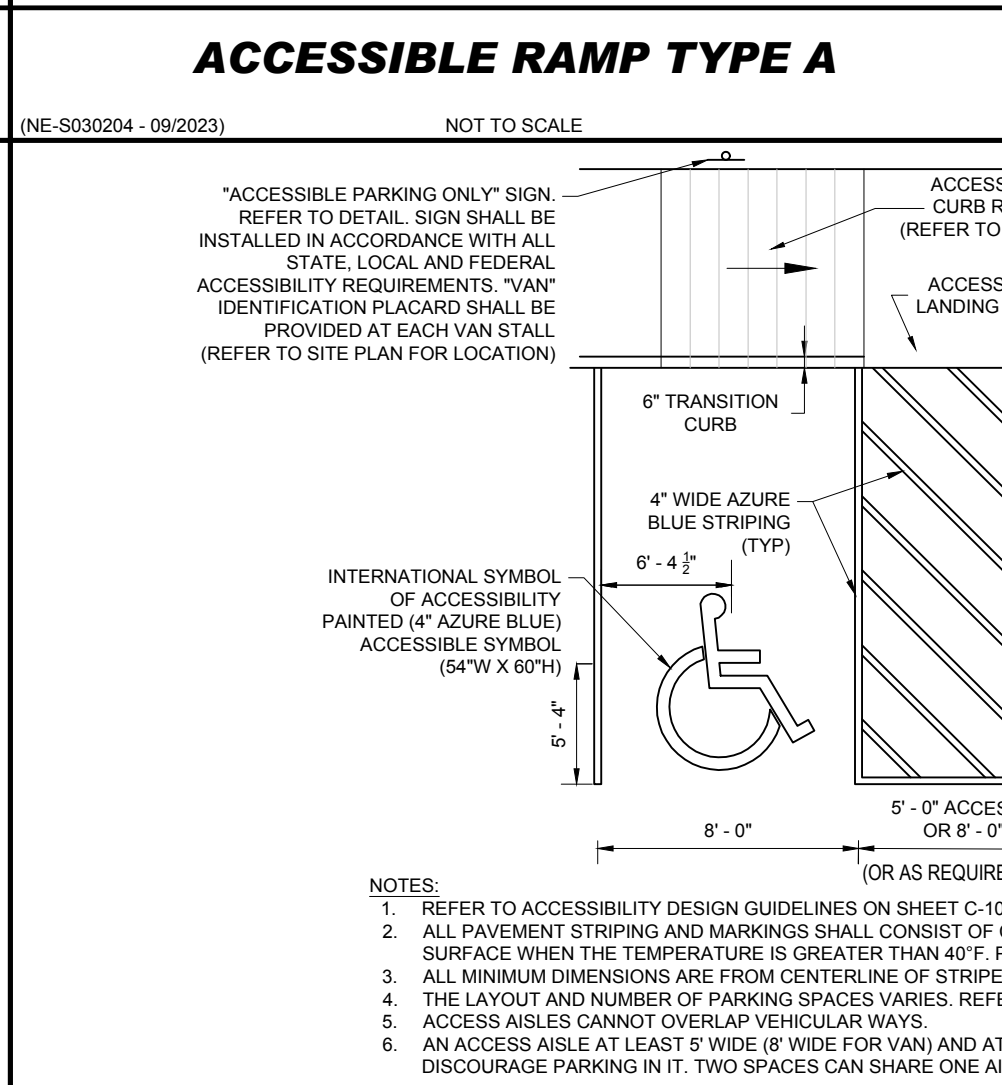
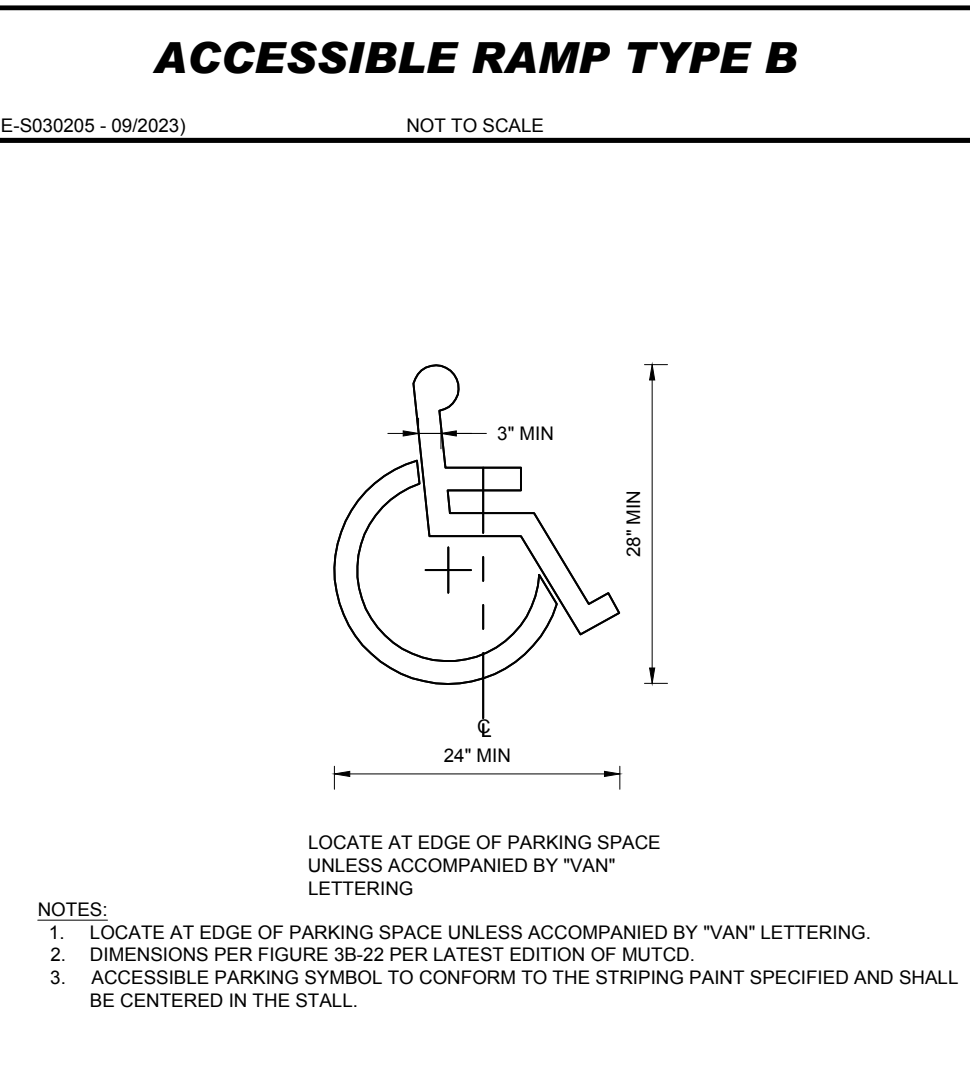
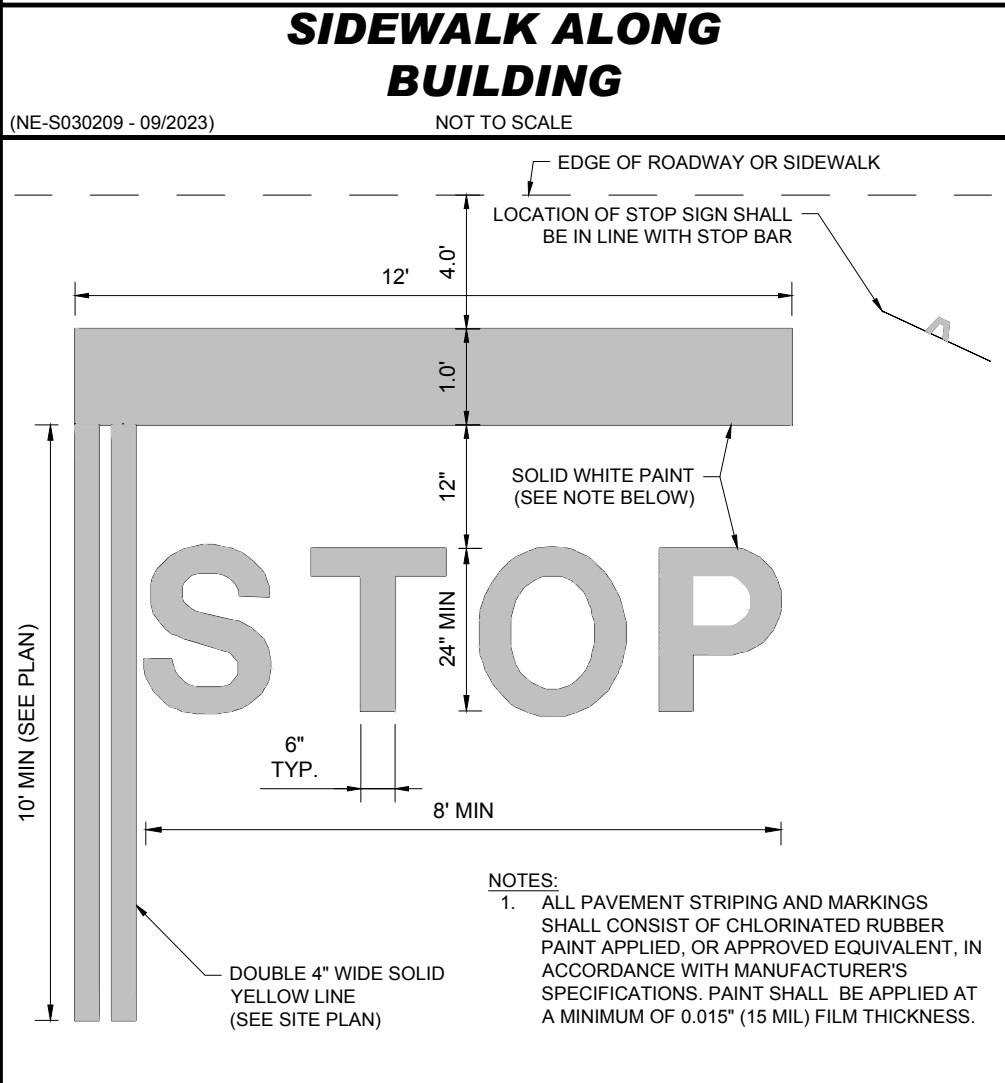
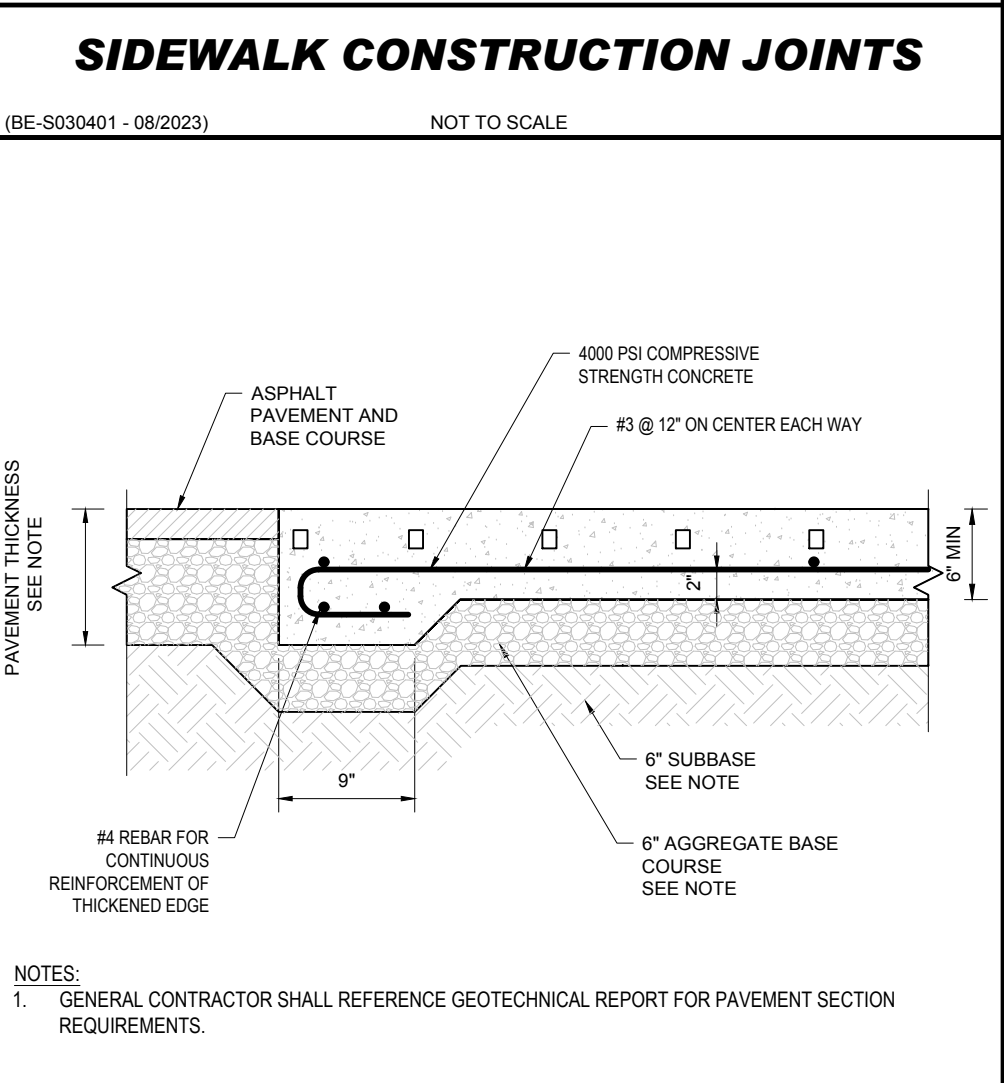
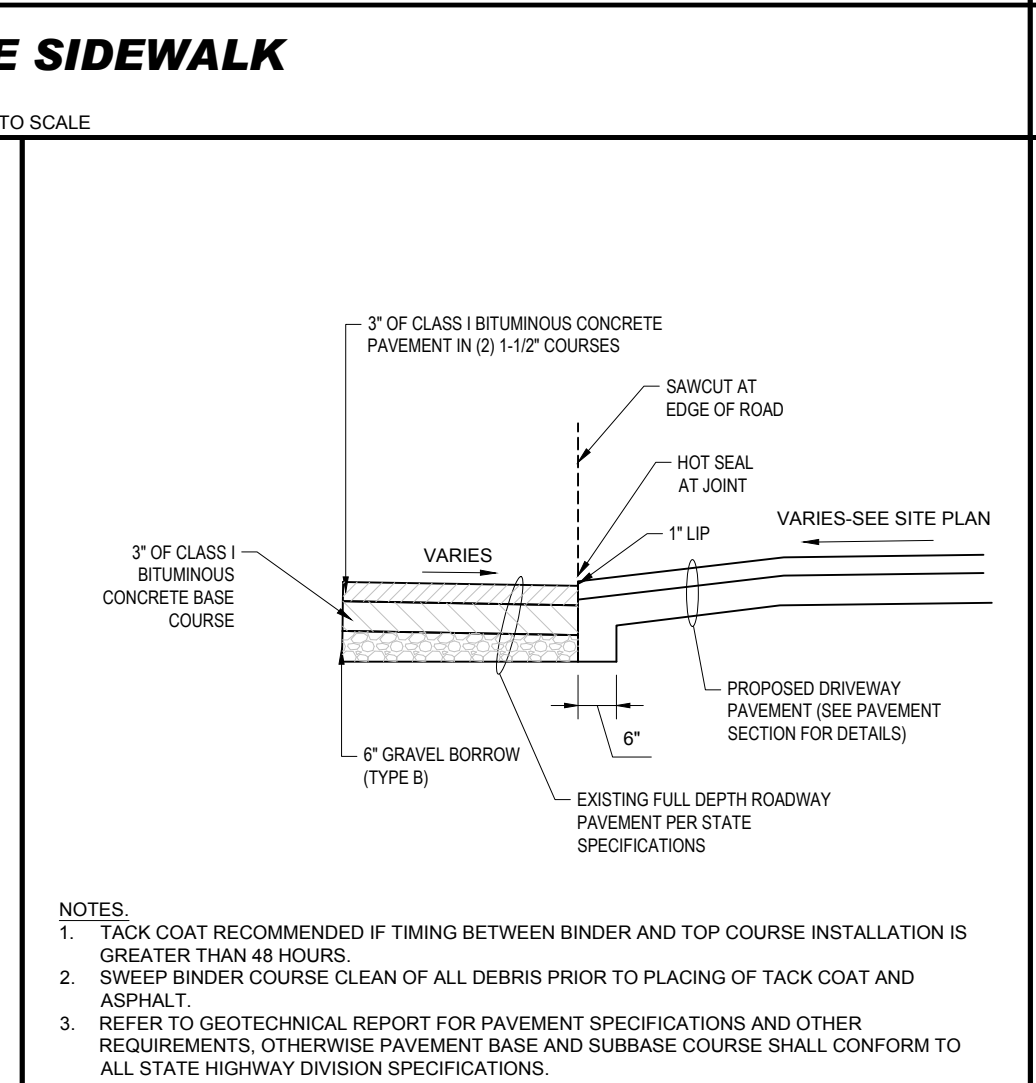
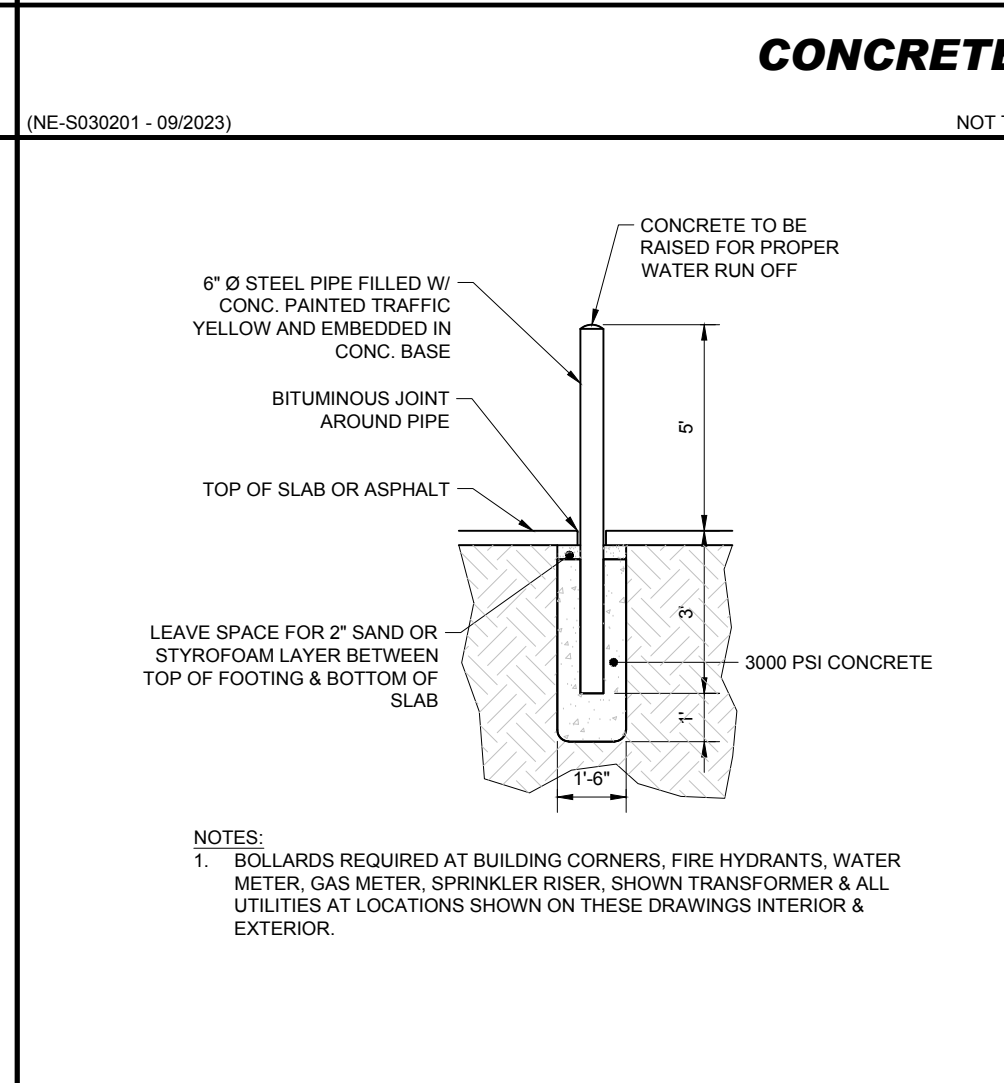
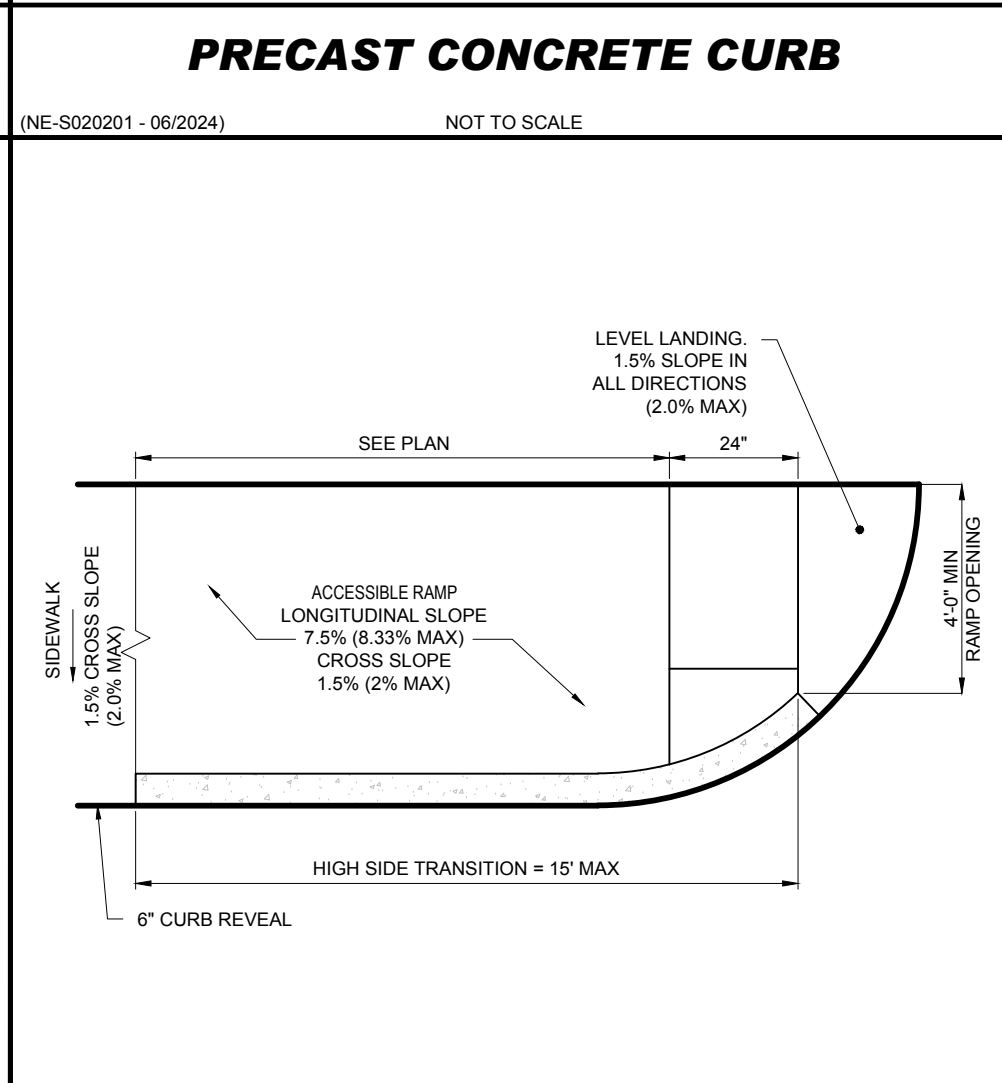
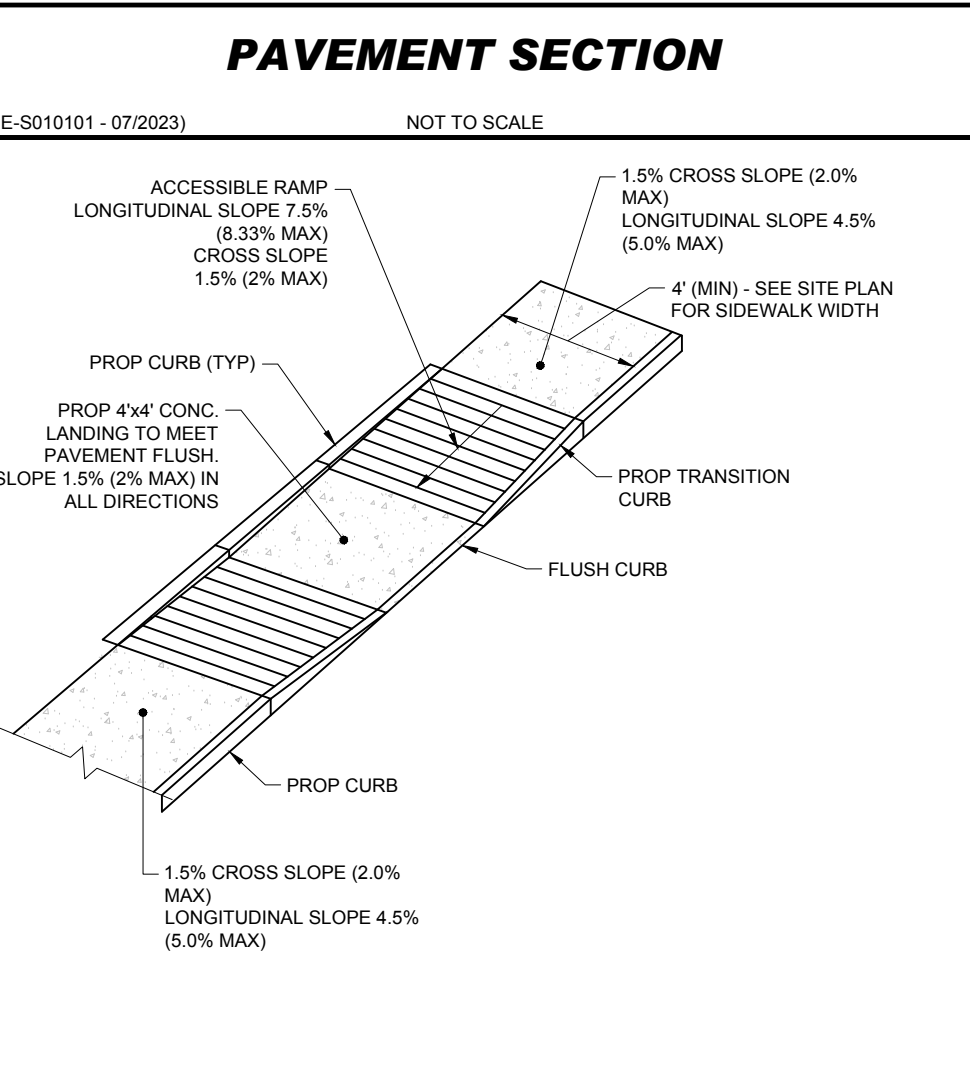
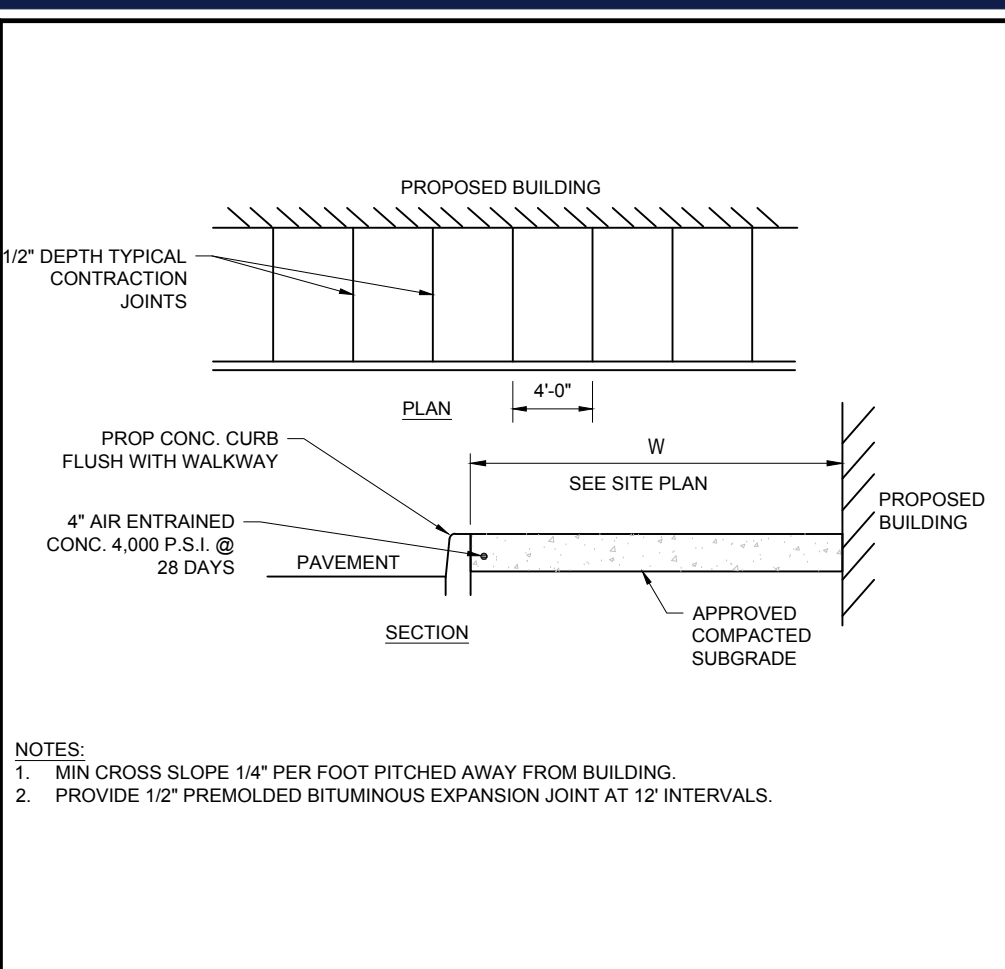
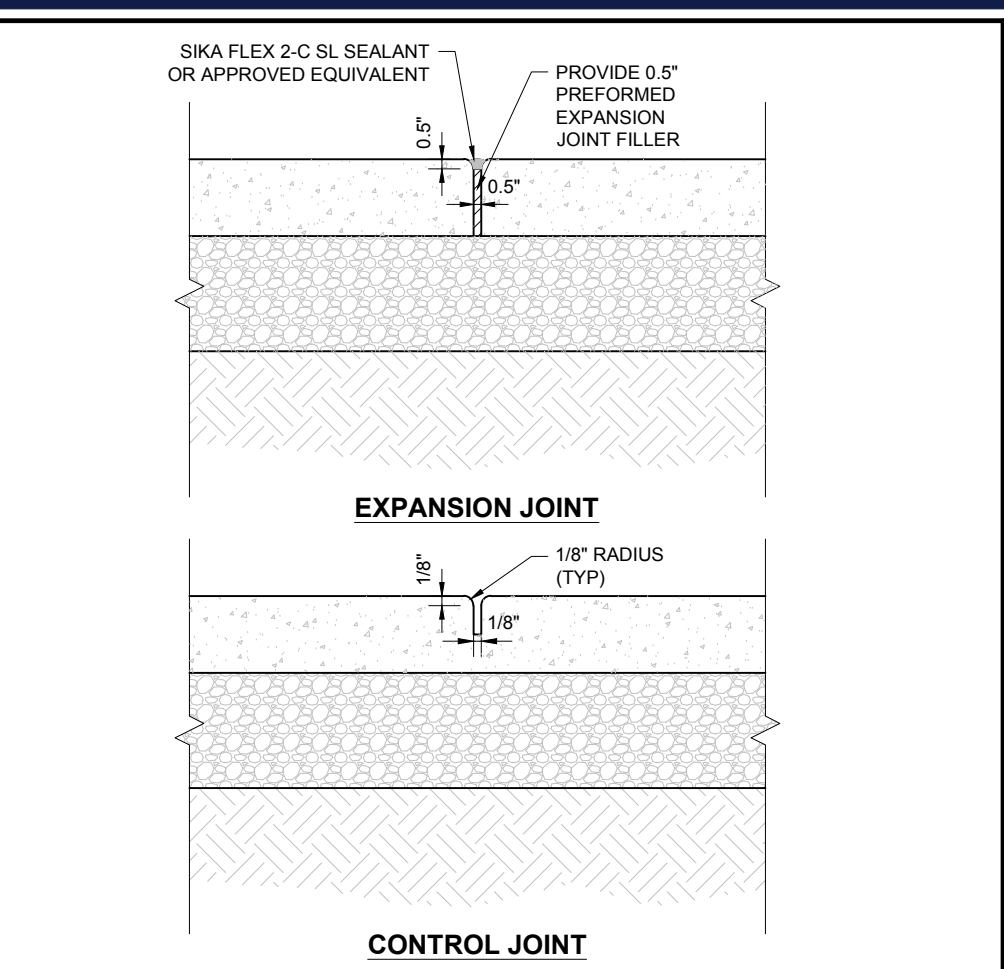
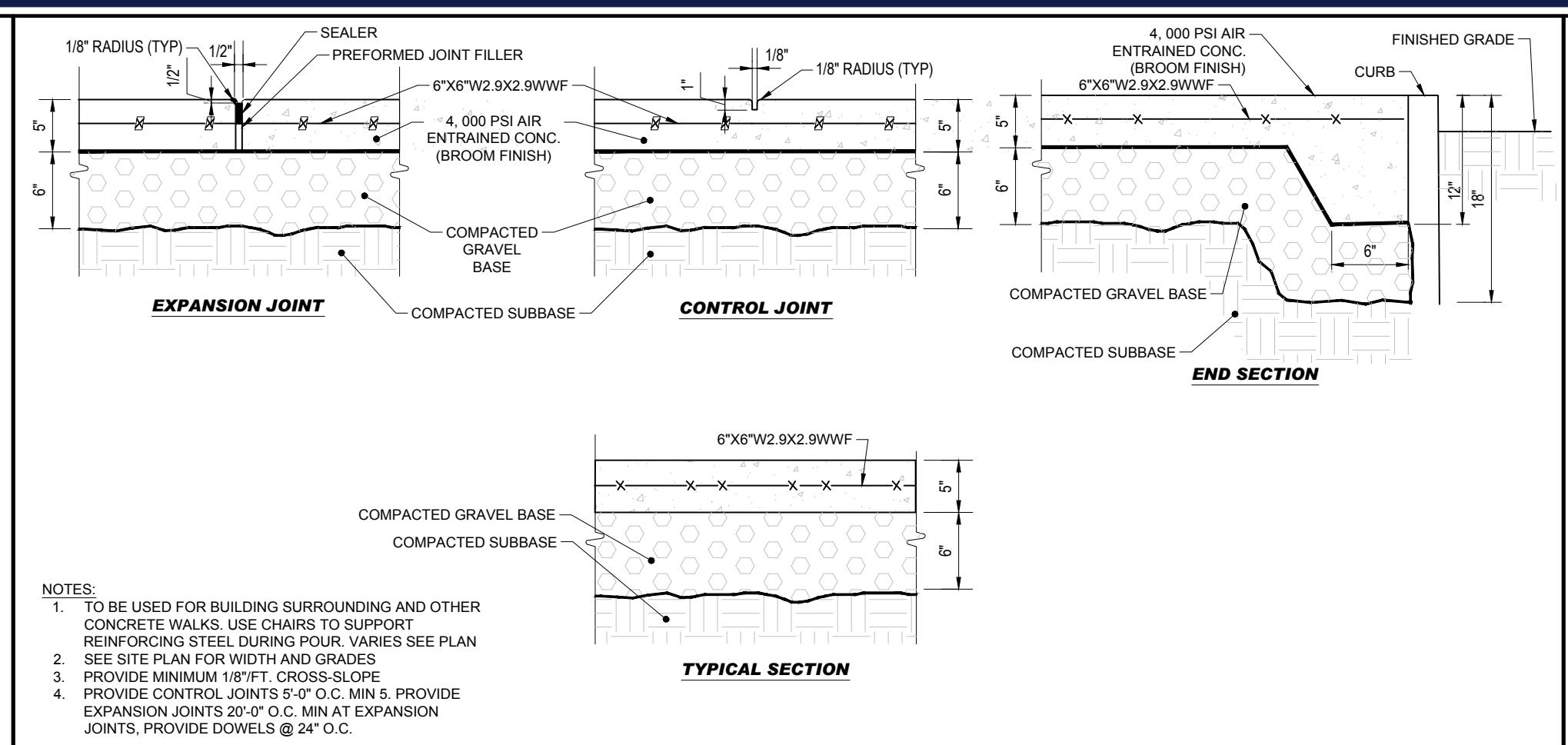
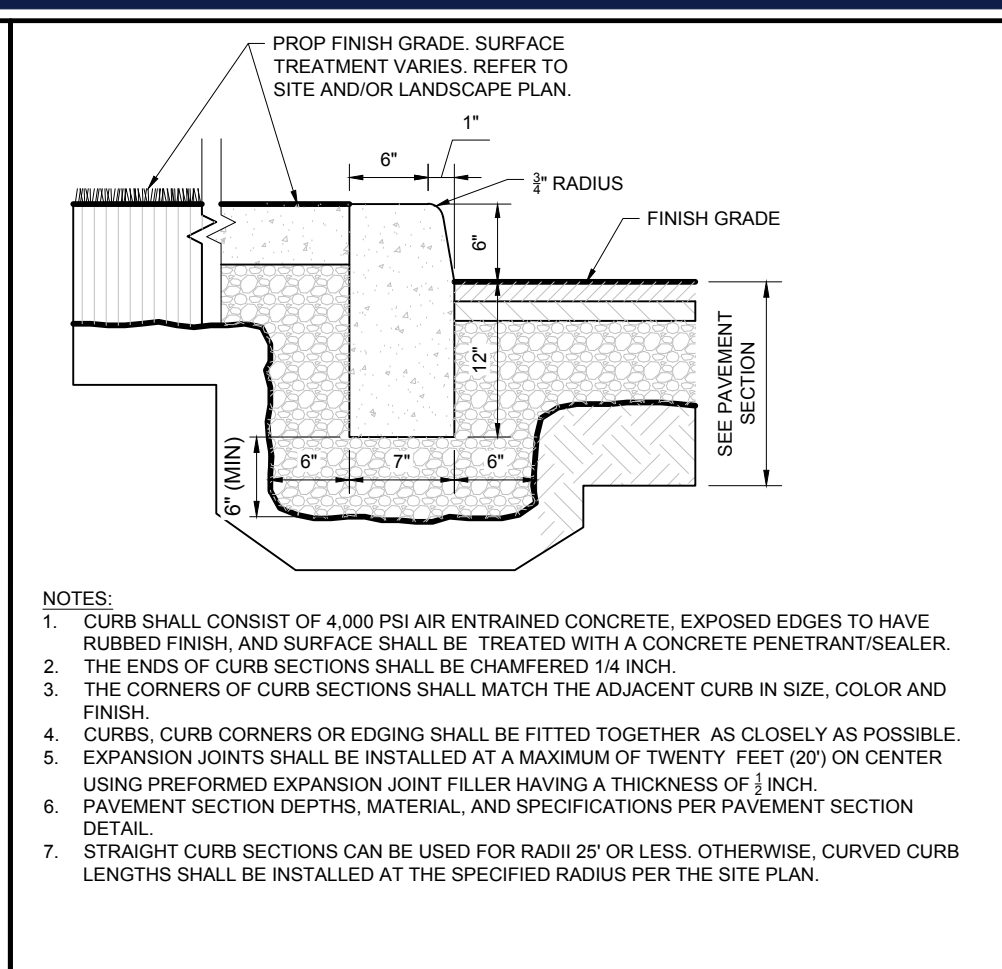
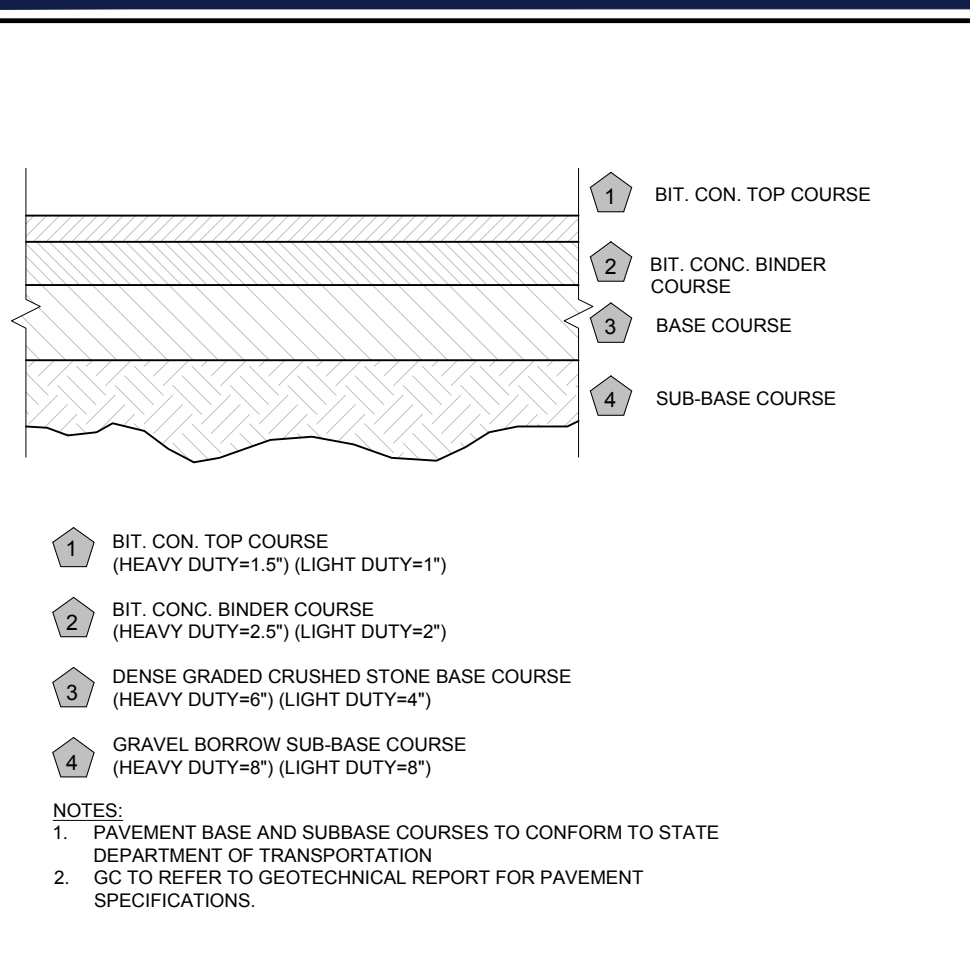
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315-317 SOUTHWEST CUTOFF
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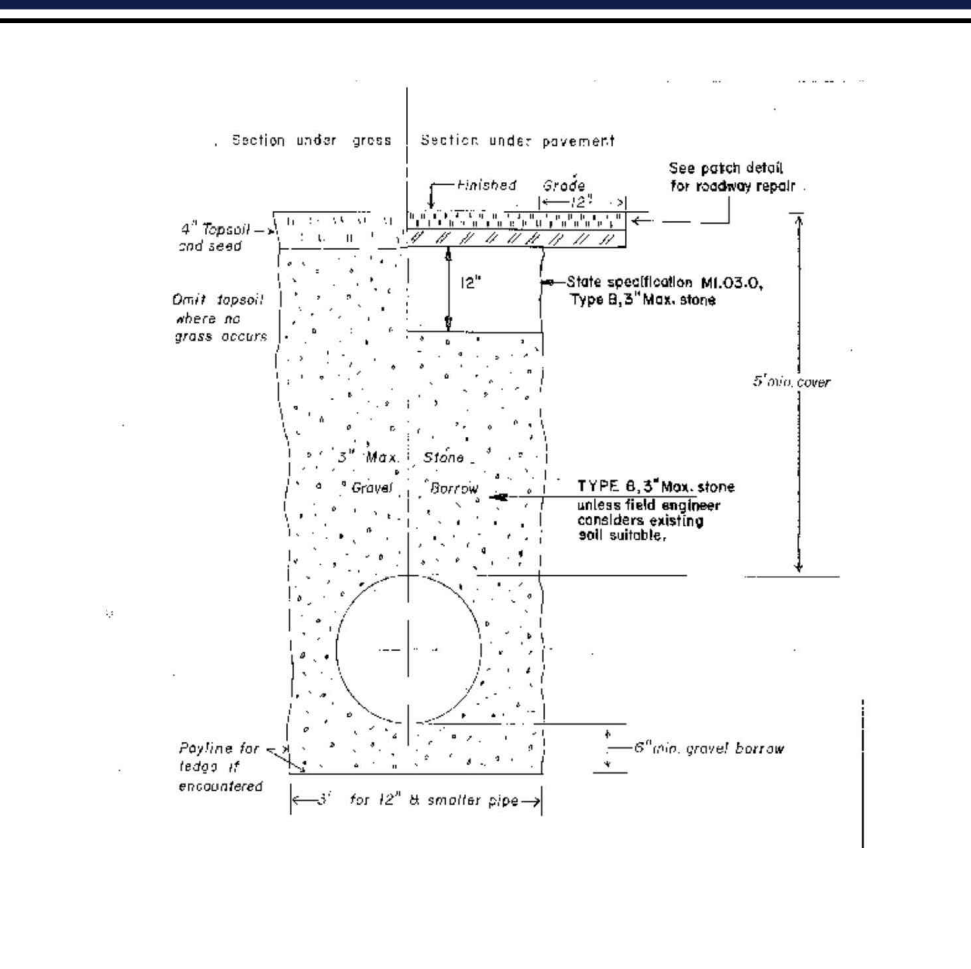
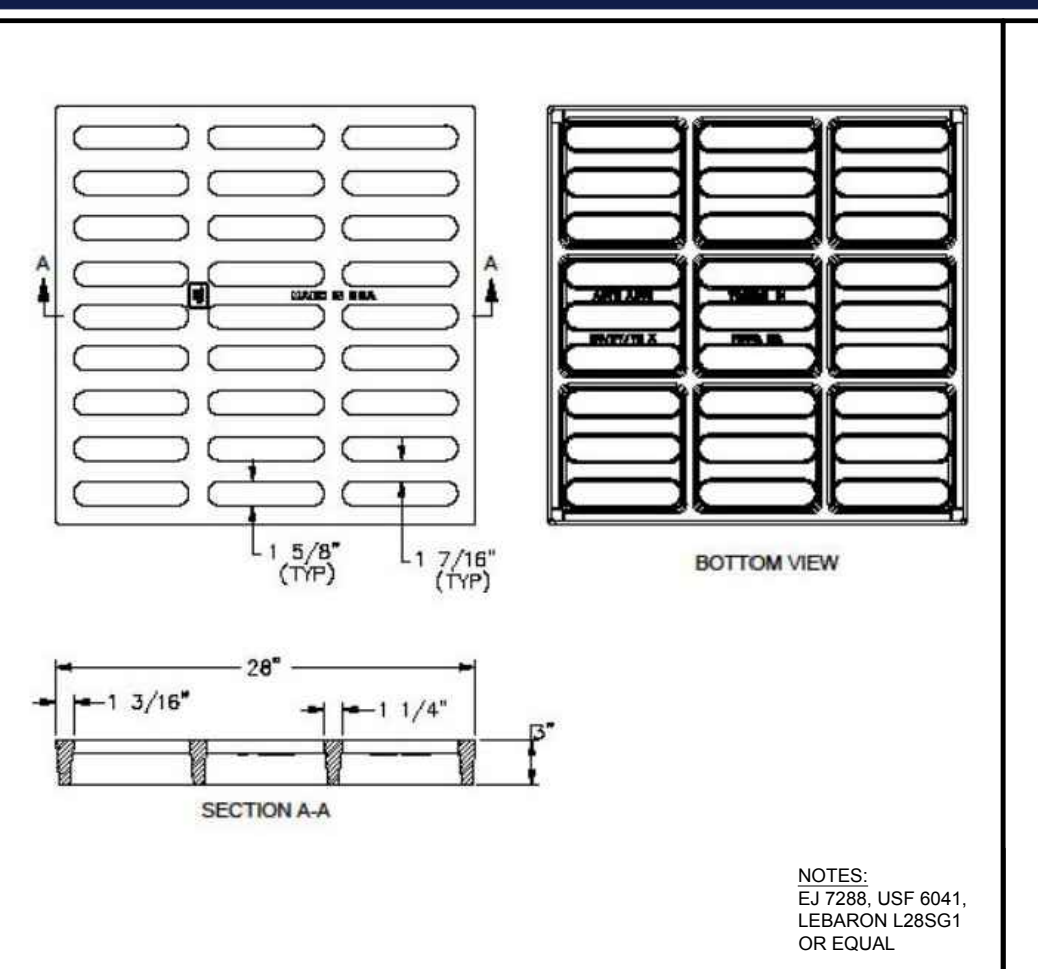
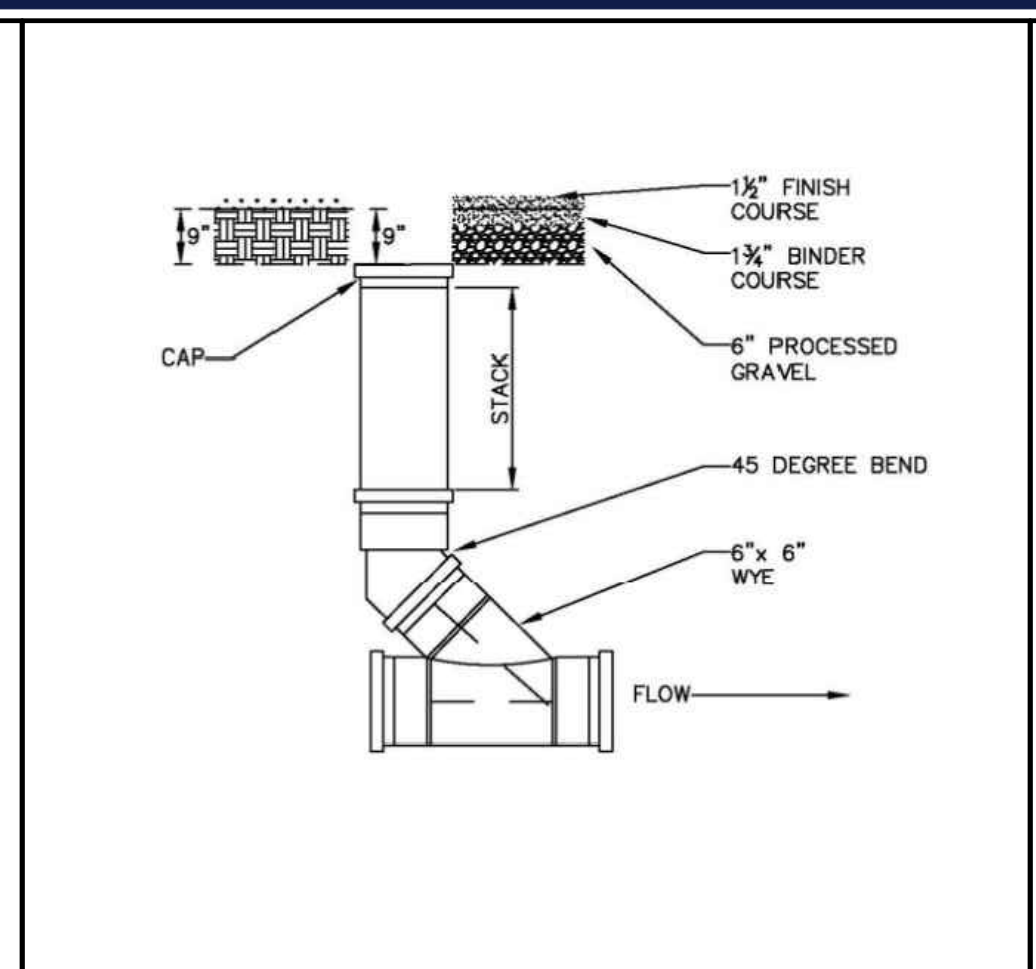
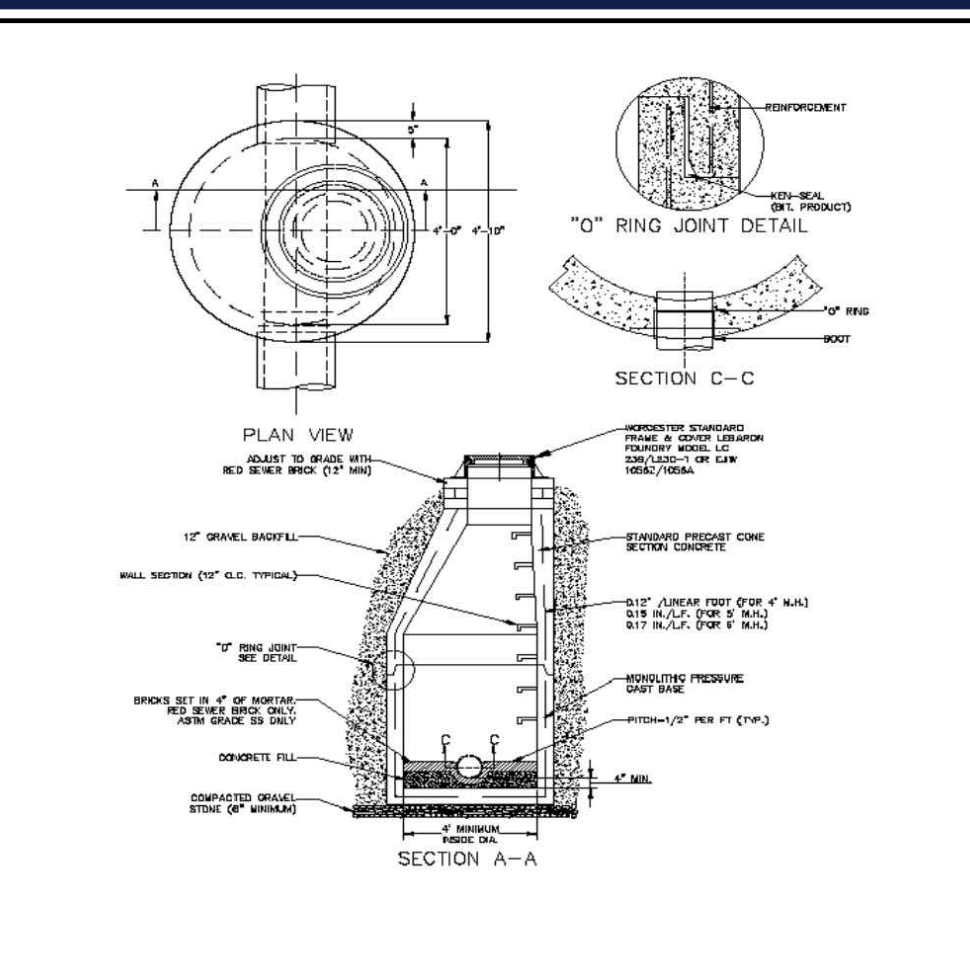
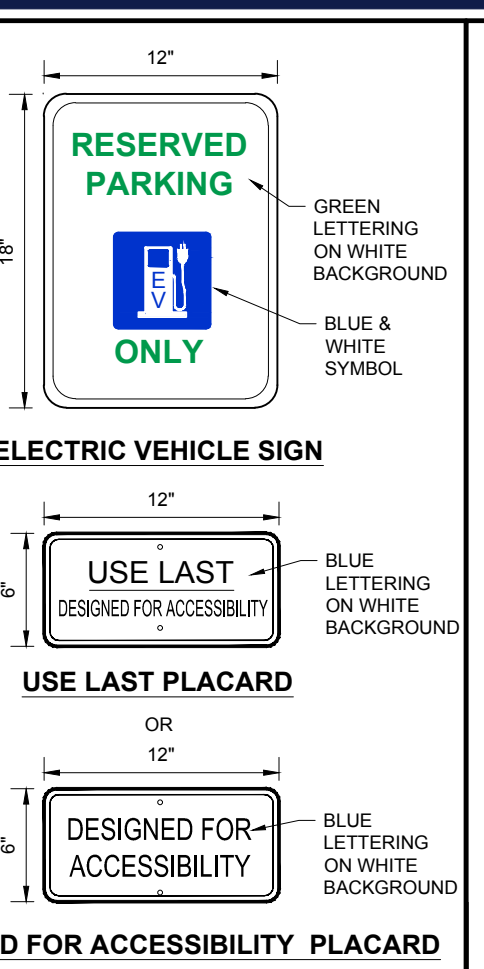
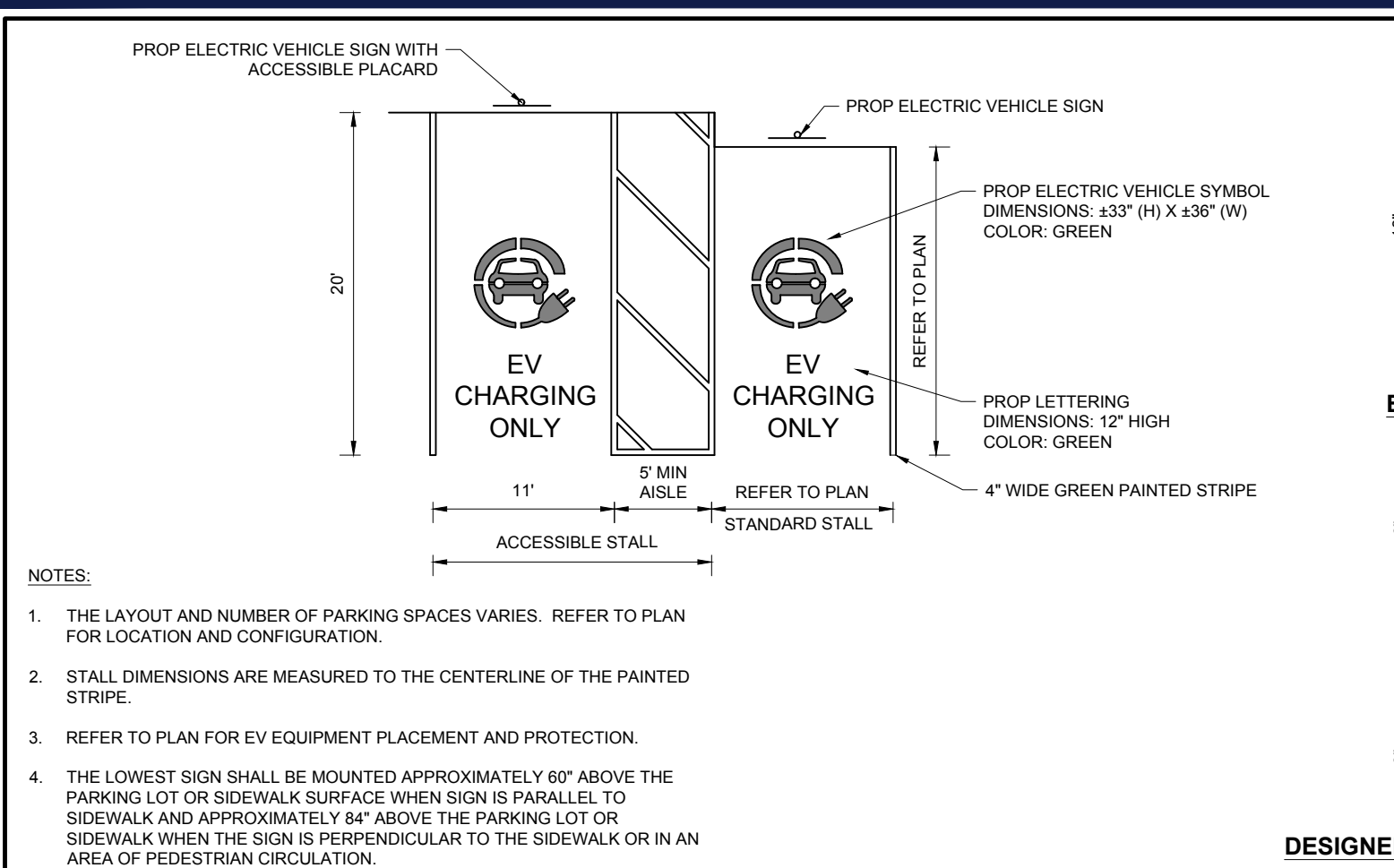
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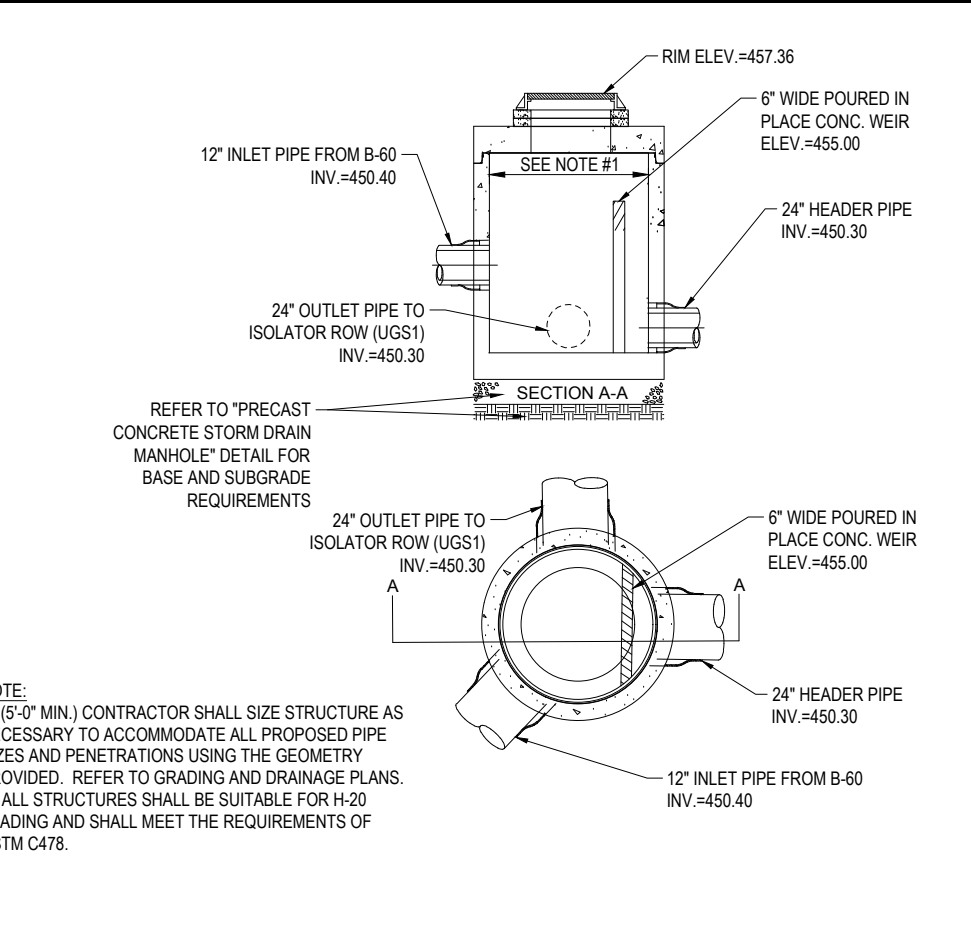
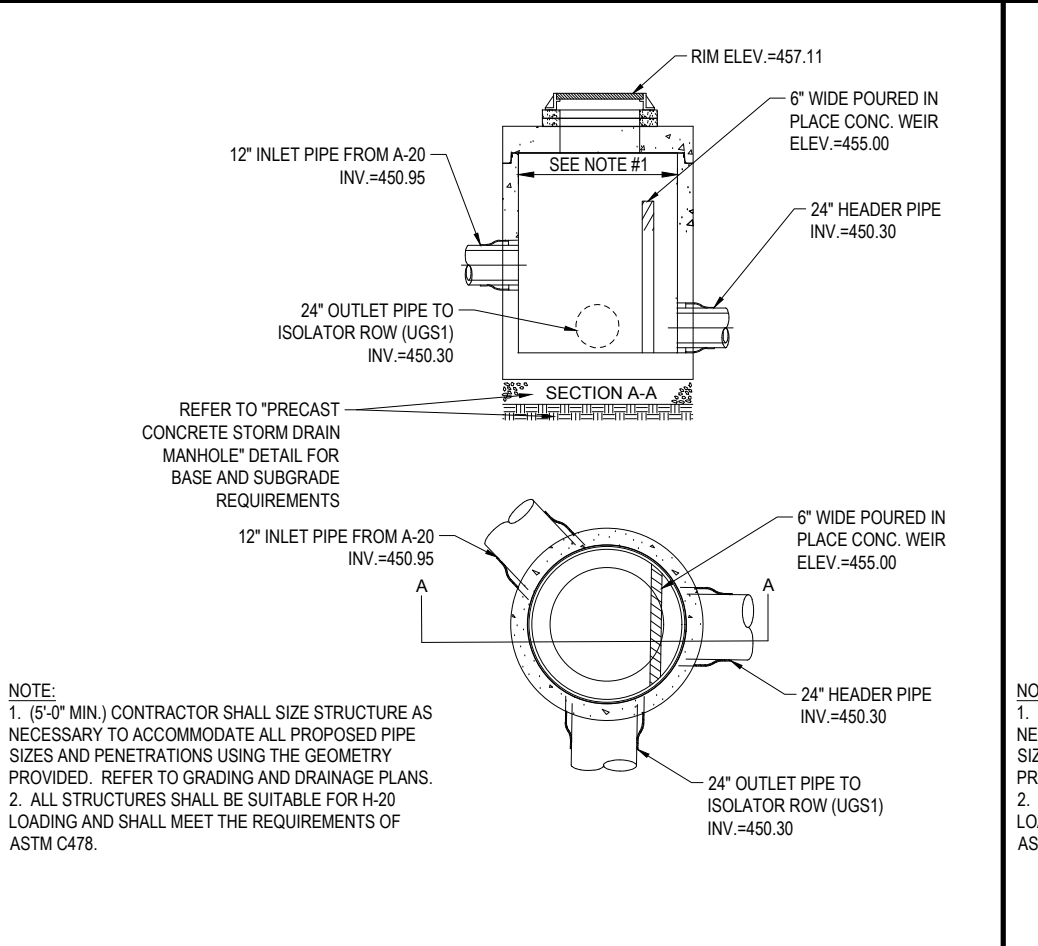
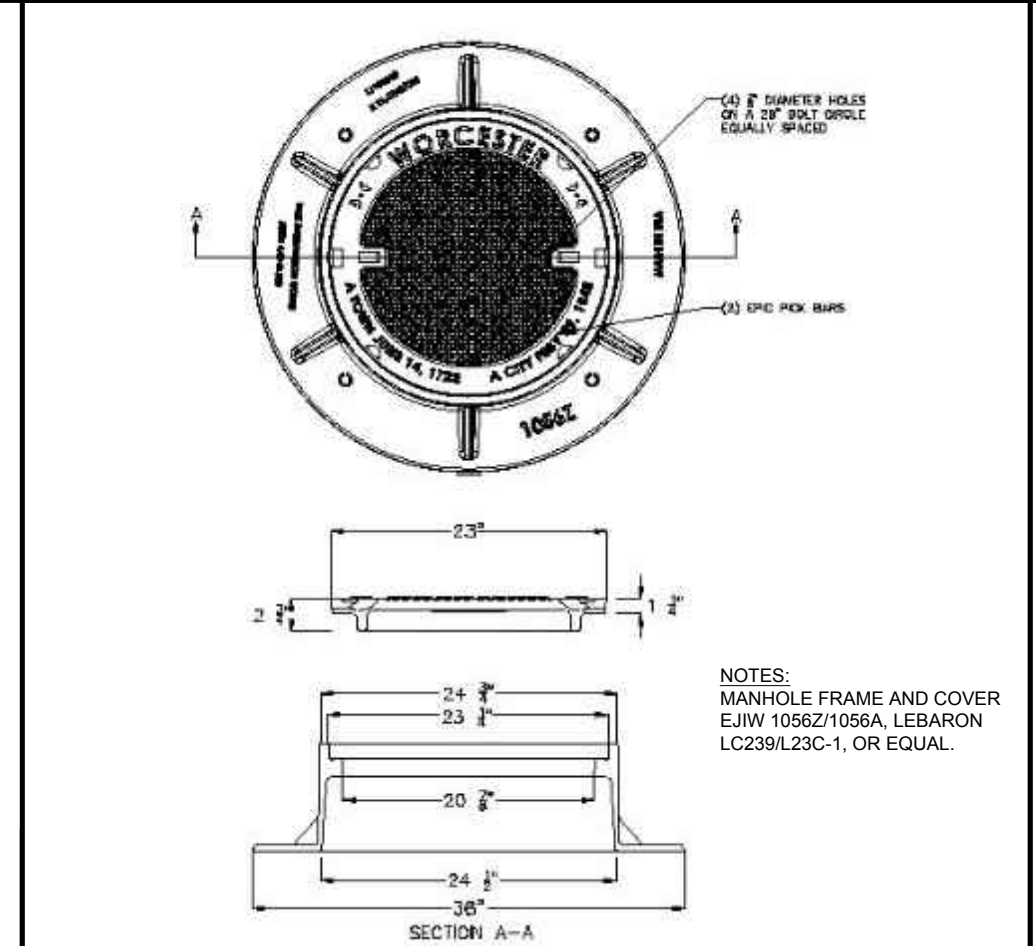
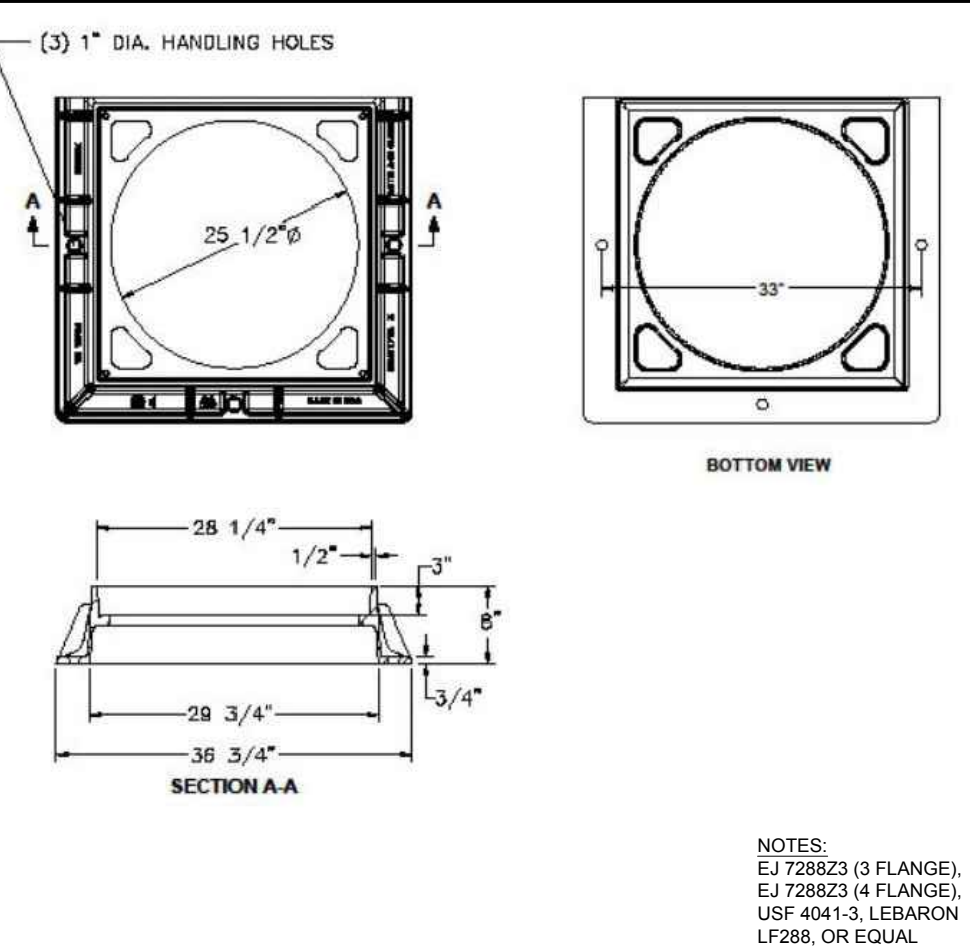
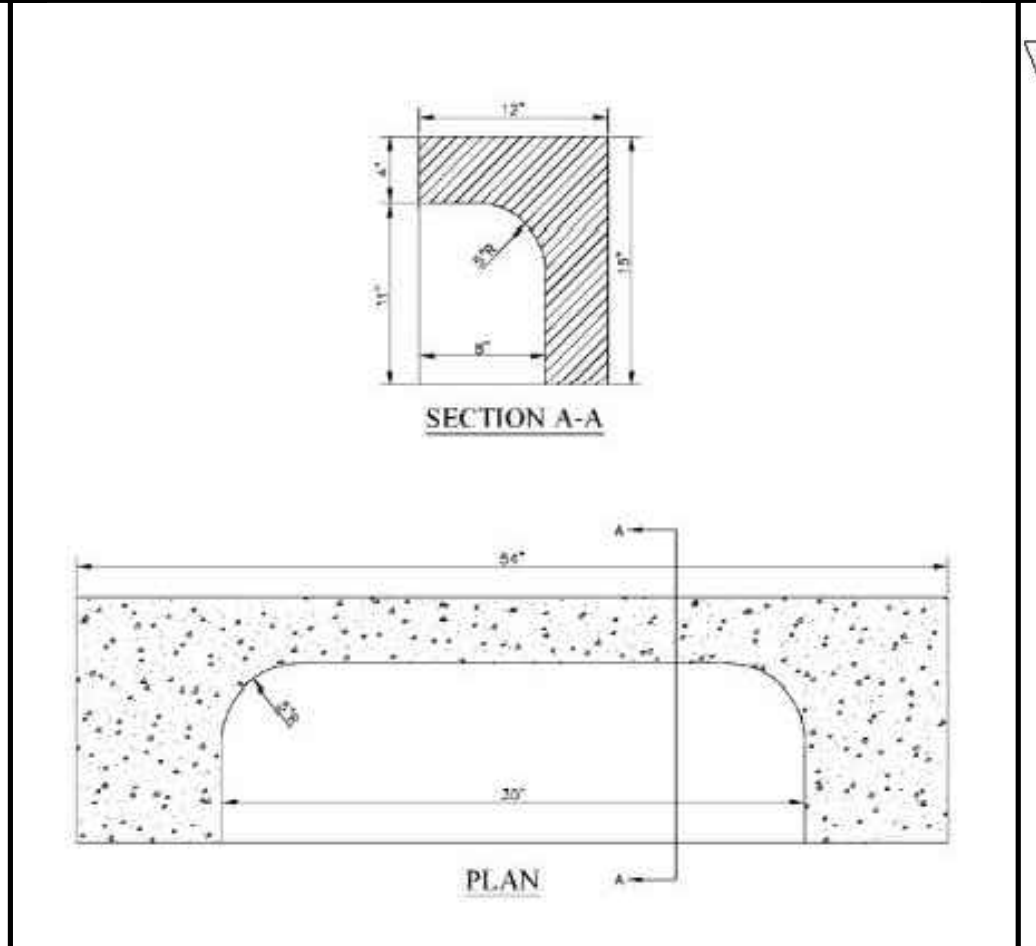
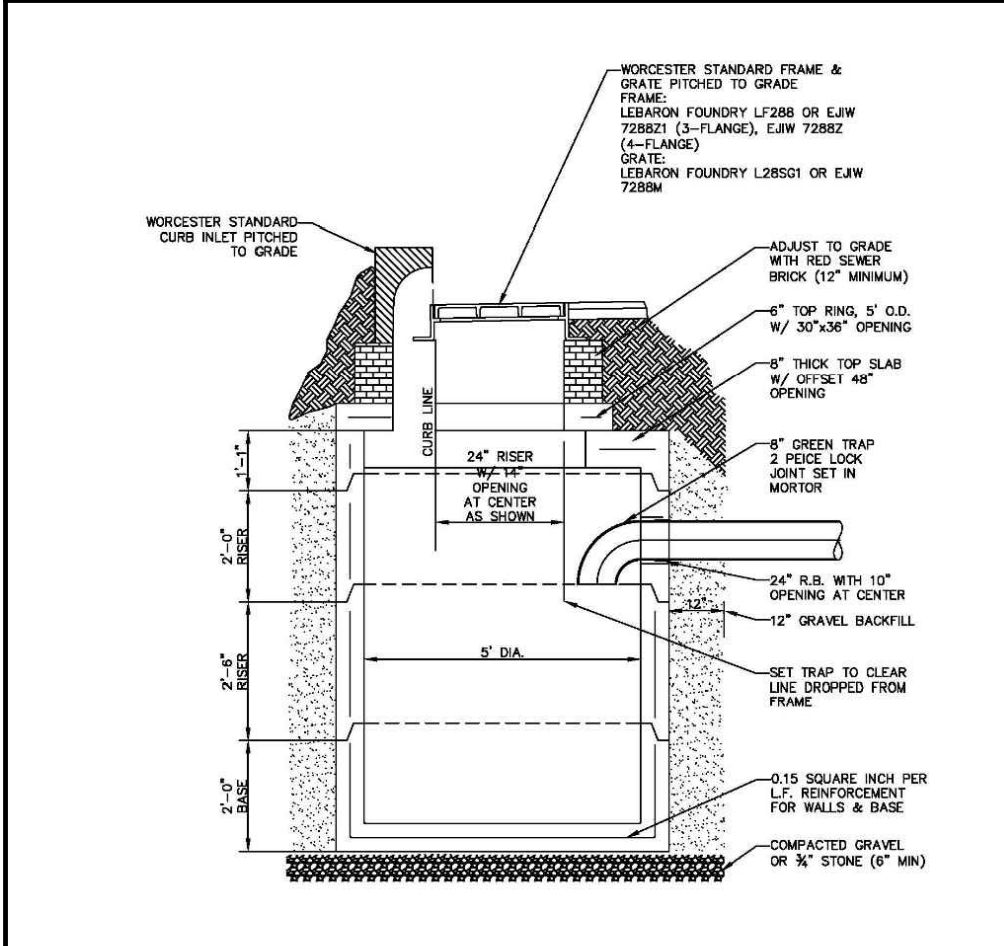
ELECTRIC VEHICLE CHARGING PARKING STRIPING AND SIGNAGE (SYMBOL AND TEXT)
 NOT TO SCALE (BE-S050201 - 04/2024)

CITY OF WORCESTER TYPICAL MANHOLE DETAIL
 NOT TO SCALE

CITY OF WORCESTER TYPICAL CLEANOUT DETAIL
 NOT TO SCALE

CITY OF WORCESTER TYPICAL CATCH BASIN GRATE DETAIL
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CITY OF WORCESTER TYPICAL TRENCH DETAIL
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CITY OF WORCESTER TYPICAL CATCH BASIN DETAIL
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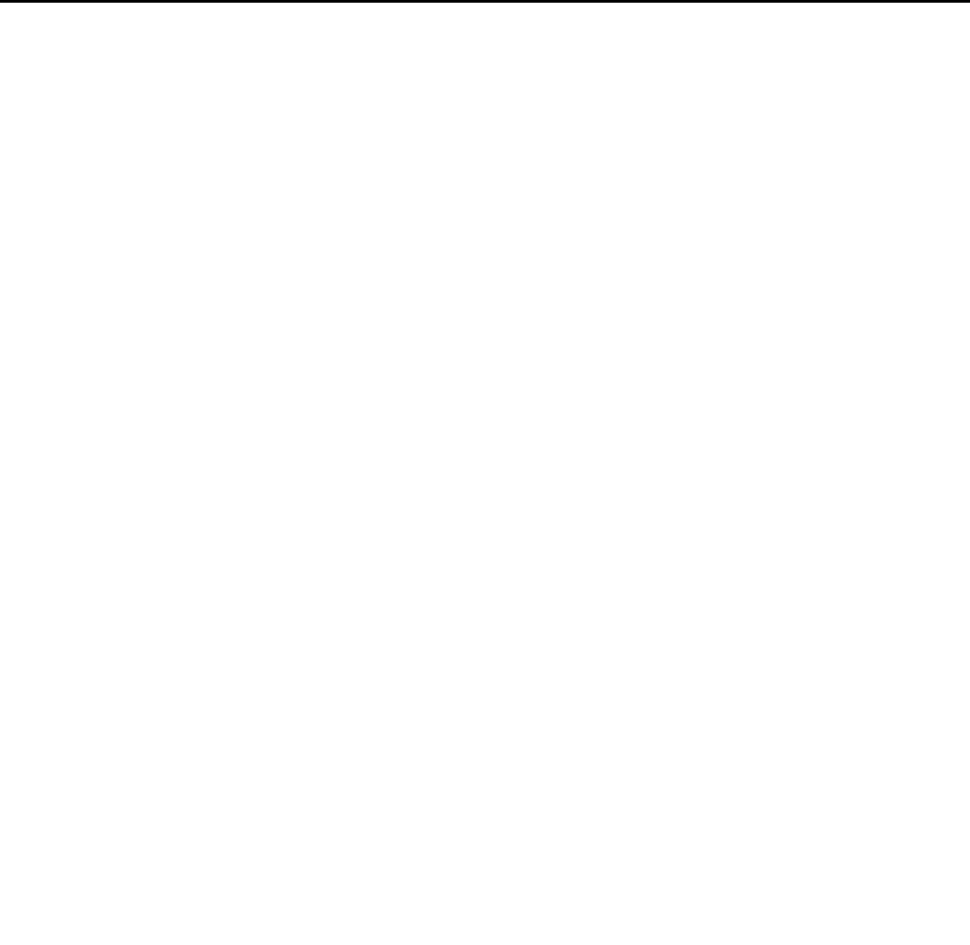
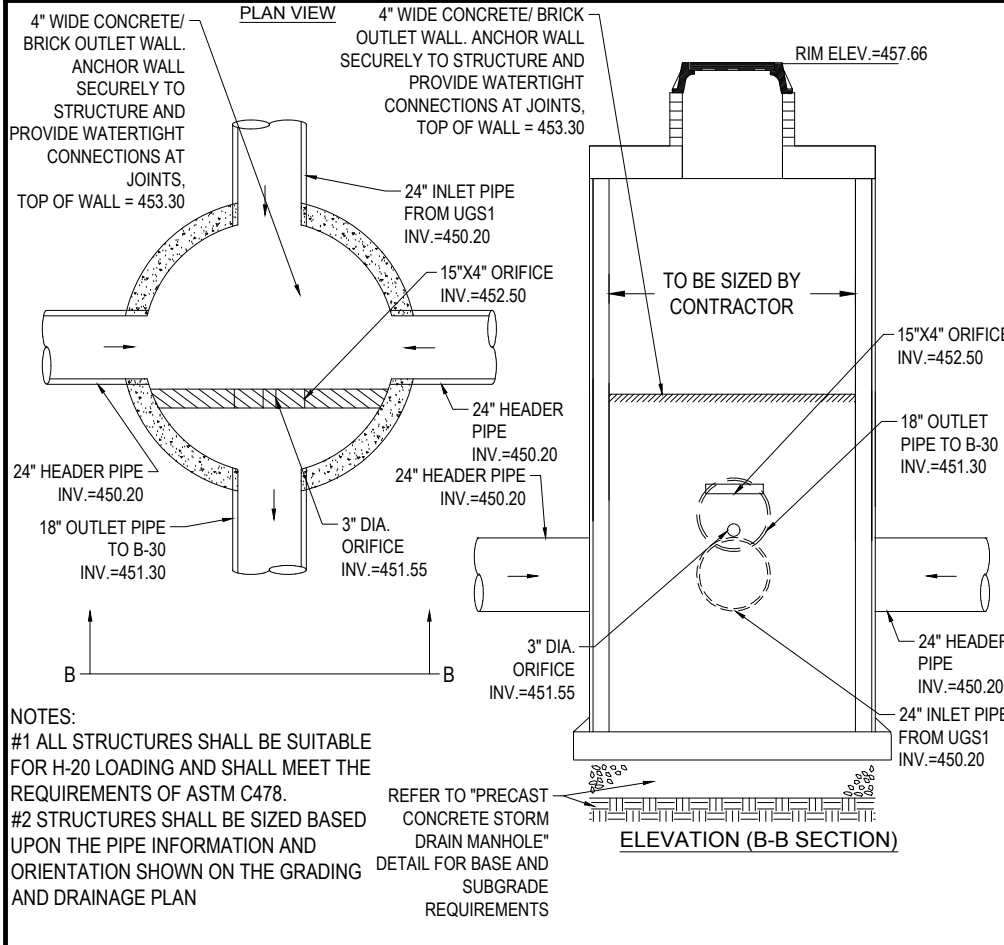
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 NOT TO SCALE

CITY OF WORCESTER TYPICAL CATCH BASIN FRAME DETAIL
 NOT TO SCALE

CITY OF WORCESTER TYPICAL MANHOLE FRAME AND COVER ASSEMBLY DETAIL
 NOT TO SCALE

INLET CONTROL STRUCTURE (ICS-1) (A10)
 NOT TO SCALE

INLET CONTROL STRUCTURE (ICS-2) (B50)
 NOT TO SCALE



UNDERGROUND INFILTRATION BASIN OUTLET CONTROL STRUCTURE (B-40)
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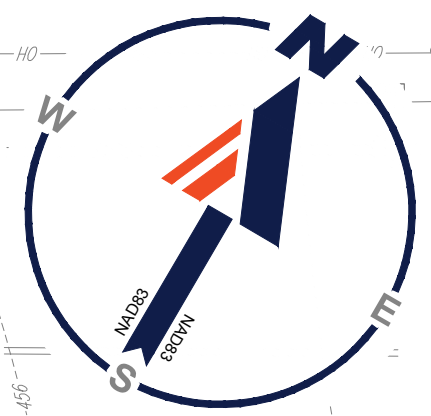
SITE DEVELOPMENT PLANS
 FOR

 PROPOSED SITE IMPROVEMENTS
 MAP: 45 | BLK: 34 | LOT: 13
 315-317 SOUTHWEST CUTOFF
 WORCESTER COUNTY
 WORCESTER, MASSACHUSETTS

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SHEET TITLE:
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 SHEET NUMBER:
C-902
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SOUTHWEST CUTOFF

(PUBLIC RIGHT-OF-WAY - 80' WIDTH)
(LAYOUT NO. 7223-2 ROUTE 20)

CITY OF WORCESTER, MASSACHUSETTS LANDSCAPE REQUIREMENTS

SECTION	REQUIREMENTS	CALCULATIONS/PROPOSED
NOTES TO TABLE 4.4	NOTE 5: a) PARKING LOCATION AND LAYOUT REQUIREMENTS FOR ALL ZONING DISTRICTS b) PARKING FACILITIES SHALL BE SET BACK A MINIMUM OF FIVE (5) FEET FROM ALL BOUNDARY LINES TO PROVIDE A BUFFER AREA FROM ADJUTING LOTS. THE BUFFER AREAS SHALL CONSIST OF PERMEABLE SURFACES AND BE APPROPRIATELY LANDSCAPED IN ACCORDANCE WITH ARTICLE V, SECTION 5(C).	PROVIDED
NOTE 6: INTERIOR LANDSCAPING	PARKING LOTS WITH MORE THAN SIXTEEN (16) PARKING SPACES SHALL HAVE LANDSCAPING IN THE INTERIOR OF THE PARKING LOT IN ADDITION TO LANDSCAPING ALONG THE EDGES OF THE LOT. NO INTERIOR LANDSCAPING IS REQUIRED, HOWEVER, FOR PARKING LOTS WHERE ALL SPACES ABUT A LANDSCAPED SETBACK AREA AS DESCRIBED IN NOTE 5, ABOVE, AND THE PARKING LOT IS IN COMPLIANCE WITH ARTICLE V, SECTION 5(C) OF THIS ORDINANCE.	INTERIOR LANDSCAPING PROVIDED
ARTICLE IV: USE REGULATIONS - SECTION 7: OFF-STREET ACCESSORY PARKING REQUIREMENTS	AT LEAST ONE (1) TREE SHALL BE PLANTED WITHIN THE PARKING LOT (INTERIOR FOR EVERY TEN (10) PROPOSED AND EXISTING SPACES. SUCH INTERIOR TREES SHALL BE IN ADDITION TO TREES REQUIRED ALONG THE EDGES OF THE LOT. INTERIOR TREES SHALL BE PLANTED IN PLANTING BEDS NO SMALLER THAN FIVE FEET BY FIVE FEET (5' X 5'). PARKING SPACES ABUTTING A LANDSCAPED SETBACK AREA (AS DESCRIBED IN NOTE 5, ABOVE) AND IN COMPLIANCE WITH ARTICLE V, SECTION 5(C) OF THIS ORDINANCE, HOWEVER, SHALL NOT BE COUNTED IN THE CALCULATION WHEN DETERMINING THE NUMBER OF INTERIOR TREES REQUIRED. TREES SHALL BE LOCATED IN SUCH A MANNER AS TO PROVIDE SHADE OVER THE GREATEST NUMBER OF PARKING SPACES PRACTICABLE. NOTWITHSTANDING ANY OF THE FOREGOING TO THE CONTRARY, THE PLANNING BOARD MAY WAIVE OR MODIFY THESE REQUIREMENTS UPON A SPECIFIC FINDING, IN WRITING, THAT A SUBSTANTIAL HARDSHIP WOULD RESULT OR WOULD OTHERWISE CAUSE THE PARKING AREA TO BE IN NONCOMPLIANCE WITH THIS ORDINANCE.	REQUIRED: 42 SPACES / 10 + 4.2 TREES PROVIDED: 5 TREES REAR PARKING SPACES (2) SPACES ABUTTING LANDSCAPED SETBACK AND REMOVED FROM CALCULATION. PROVIDED
SECTION 5 - APPLICATION APPROVAL PROCESS	C. LANDSCAPING DESIGN STANDARDS 1. LANDSCAPE SCREENING B. LANDSCAPING SCREENING SHALL CONSIST OF PLANTING AREAS AT LEAST FIVE (5) FEET WIDE LOCATED ALONG THE SIDEWALK EDGE AND/OR SIDE LOT LINES OF A PROPOSED USE. TREES SHALL BE THE MAJOR ELEMENTS OF LANDSCAPE SCREENING. A COMBINATION OF PLANT MATERIALS, TREES AND SHRUBS SHALL BE INCLUDED IN LANDSCAPE SCREENING AREAS. FENCING MAY BE USED, IN COMBINATION WITH TREES AND SHRUBS, WHEN APPROPRIATE. i) TREES TREES SHALL BE PLANTED EVERY TWENTY (20) TO TWENTY-FIVE (25) FEET ON CENTER. TREES TO BE PLANTED SHALL HAVE TRUNKS AT LEAST THREE (3) TO THREE AND ONE-HALF (3 1/2) INCHES IN DIAMETER WHEN MEASURED SIX (6) INCHES ABOVE THE GROUND. RECOMMENDED SPECIES OF TREES INCLUDE, BUT ARE NOT LIMITED TO: ii) SHRUBS SHRUBS SHALL BE PLANTED ALONG WITH TREES IN A LANDSCAPE SCREENING AREA. SHRUBS MAY BE DECIDUOUS OR EVERGREEN, OR A MIXTURE OF BOTH TYPES, AND SHALL BE DENSELY PLANTED TO PROVIDE A MATURE APPEARANCE WITHIN THREE (3) YEARS. FOR LANDSCAPE SCREENING AREAS ALONG A SIDEWALK EDGE, SHRUBS SHALL BE NO TALLER THAN FOUR (4) FEET HIGH. FOR LANDSCAPE SCREENING AREAS WHICH ABUT ADJACENT RESIDENTIAL USES, SHRUBS MAY BE UP TO SEVEN (7) FEET IN HEIGHT TO PROVIDE A MORE EFFECTIVE BUFFER BETWEEN LAND USES. RECOMMENDED SPECIES INCLUDE, BUT ARE NOT LIMITED TO: iv) MAINTENANCE OF LANDSCAPED AREAS ALL PLANT MATERIAL AND FENCING SHALL BE ARRANGED AND MAINTAINED SO AS NOT TO OBSCURE THE VISION OF TRAFFIC.	EXISTING VEGETATION TO REMAIN ALONG EAST AND REAR LOT LINES. PROPOSED SCREENING ALONG WESTERN LOT LINE IS NOT FEASIBLE. PROVIDED PROVIDED EXISTING VEGETATION TO REMAIN PROVIDED

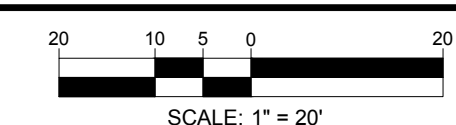
PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
CANOPY TREES					
GTIS	3	OLEA FRAX	SHADEMASTER	3.3.5" CAL.	B&B
QP	2	QUERCUS PALUSTRIS	PIN OAK	3.3.5" CAL.	B&B
SHRUBS					
PFG	10	POTENTILLA FRUTICOSA	GOLDFINGER	18-24"	CONTAINER
GROUNDCOVER					
JHBC	11	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP JUNIPER	15-18" SPRD	CONTAINER
PERENNIALS					
NFD	15	NEPETA X FAASSENII 'DROMPORE'	DROMPORE CATMINT	1 GAL.	CONTAINER

SEED MIX KEY

	PROPOSED HYDROSEED
	PROPOSED CONSERVATION/WILDLIFE SEED MIX

THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY



REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY



PERMIT SET

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PROJECT No.: MAA230363-00-0B
DRAWN BY: SBB
CHECKED BY: CPB/LMD
DATE: 10/02/2024
CAD ID: P-CIV-L-LS-CP

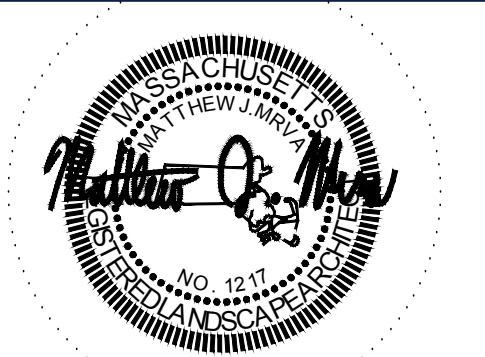
PROJECT: **SITE DEVELOPMENT PLANS** FOR **AAA**

PROPOSED SITE IMPROVEMENTS

MAP: 45 | BLK: 34 | LOT: 13
315-317 SOUTHWEST CUTOFF
WORCESTER COUNTY
WORCESTER, MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD, 3rd FLOOR
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com



SHEET TITLE: **LANDSCAPE PLAN**

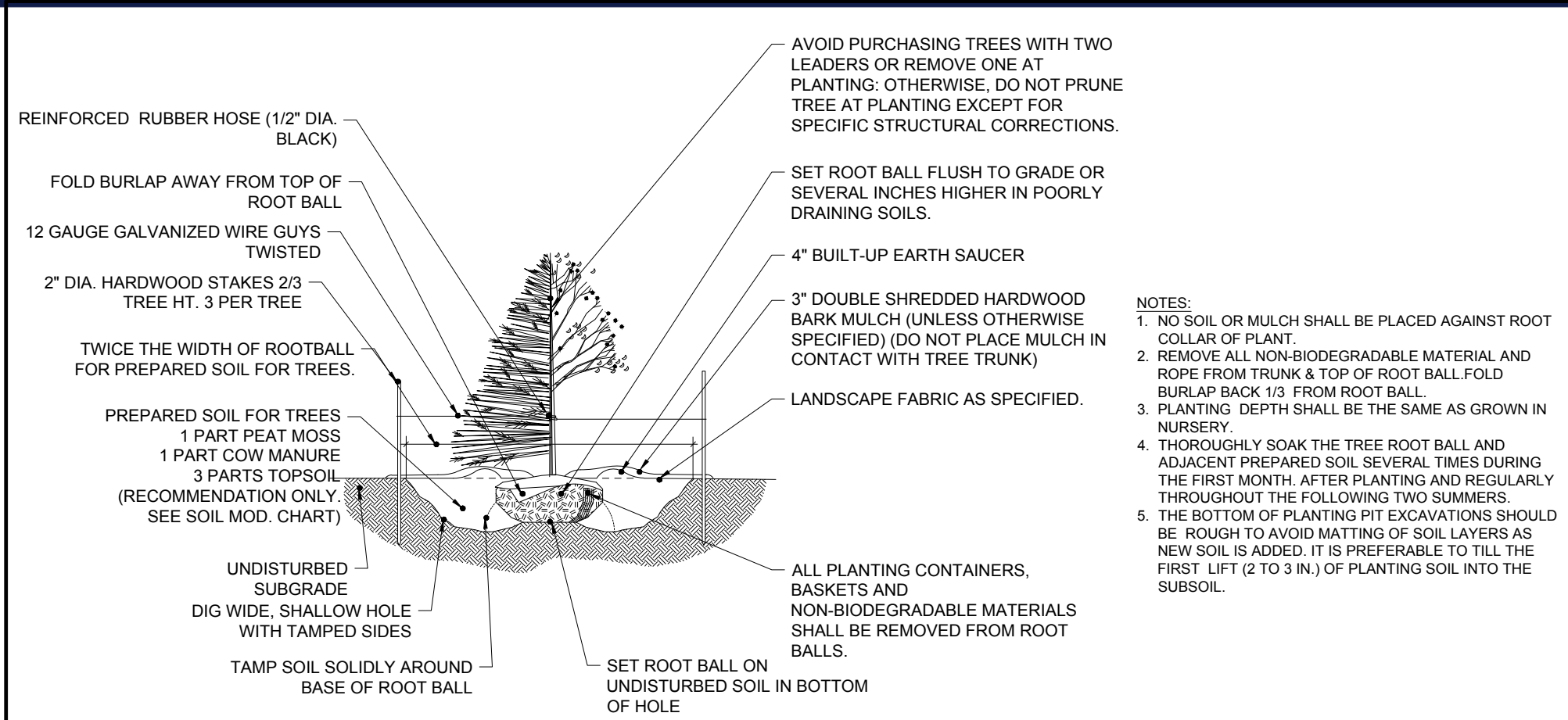
SHEET NUMBER: **L-101**

ORG. DATE - 10/02/2024

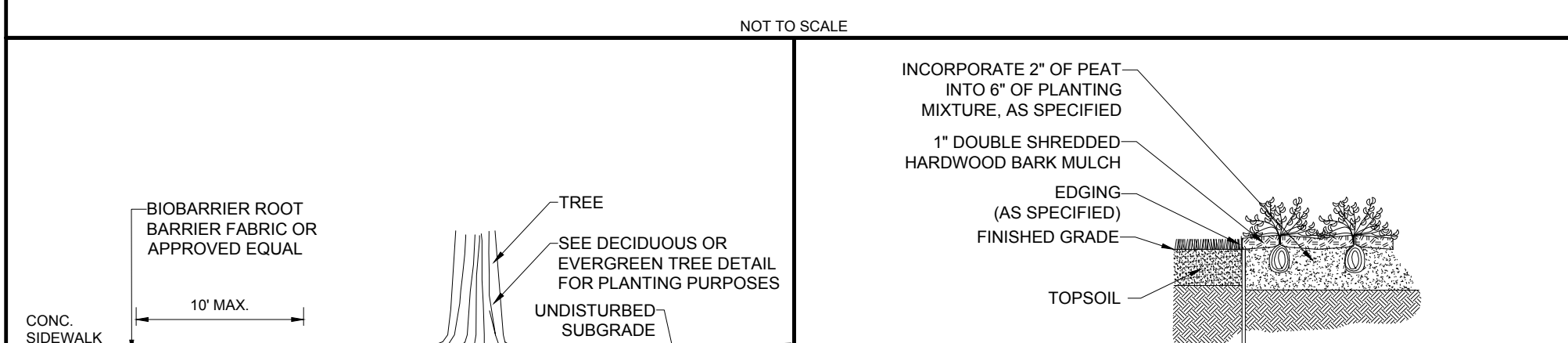
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MASSACHUSETTS LANDSCAPE SPECIFICATION

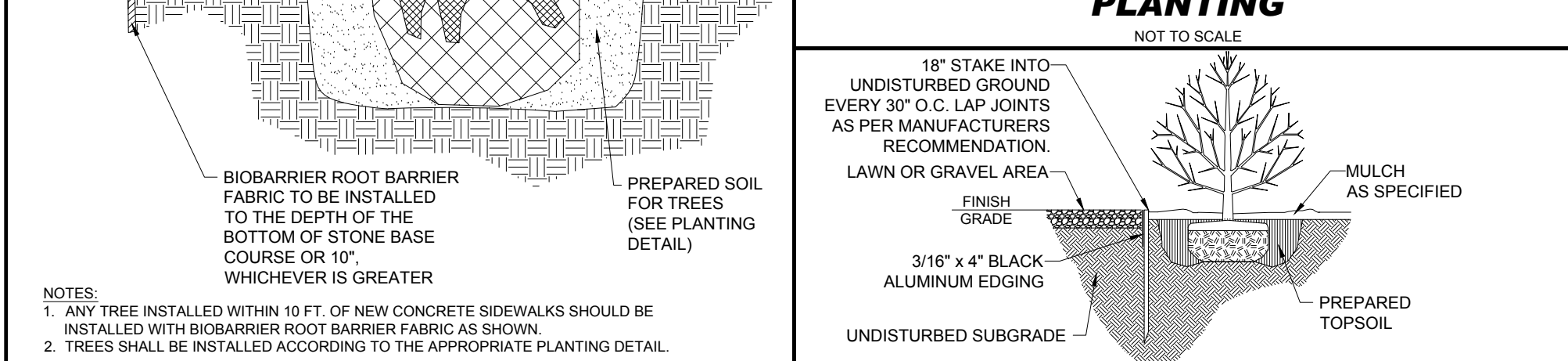
- 1. SCOPE OF WORK: a) THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION... 2. MATERIALS a) GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS...



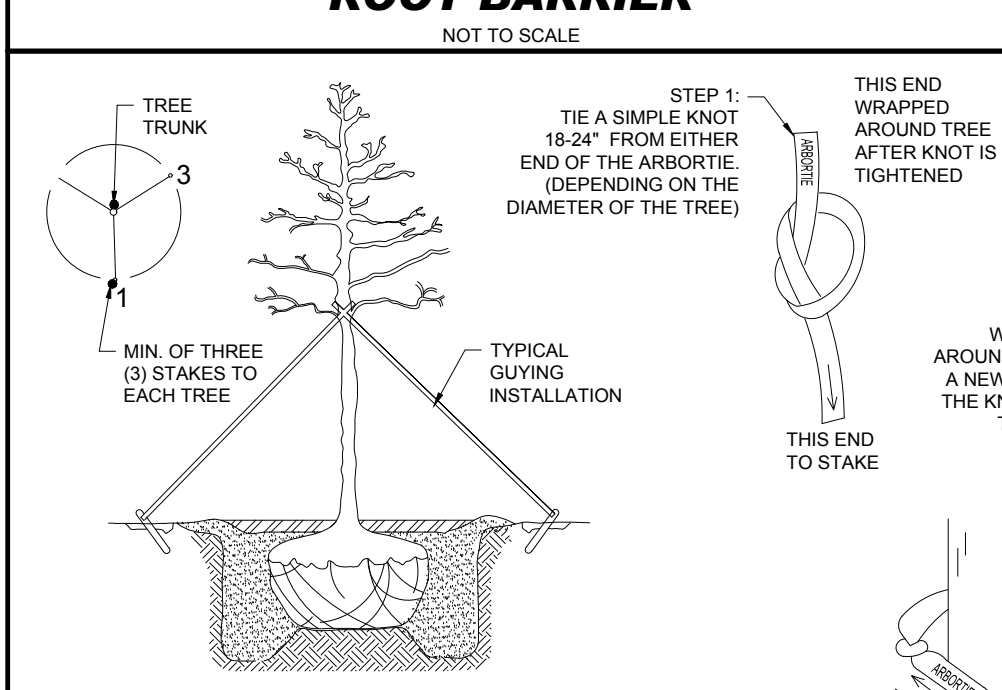
TREE PLANTING



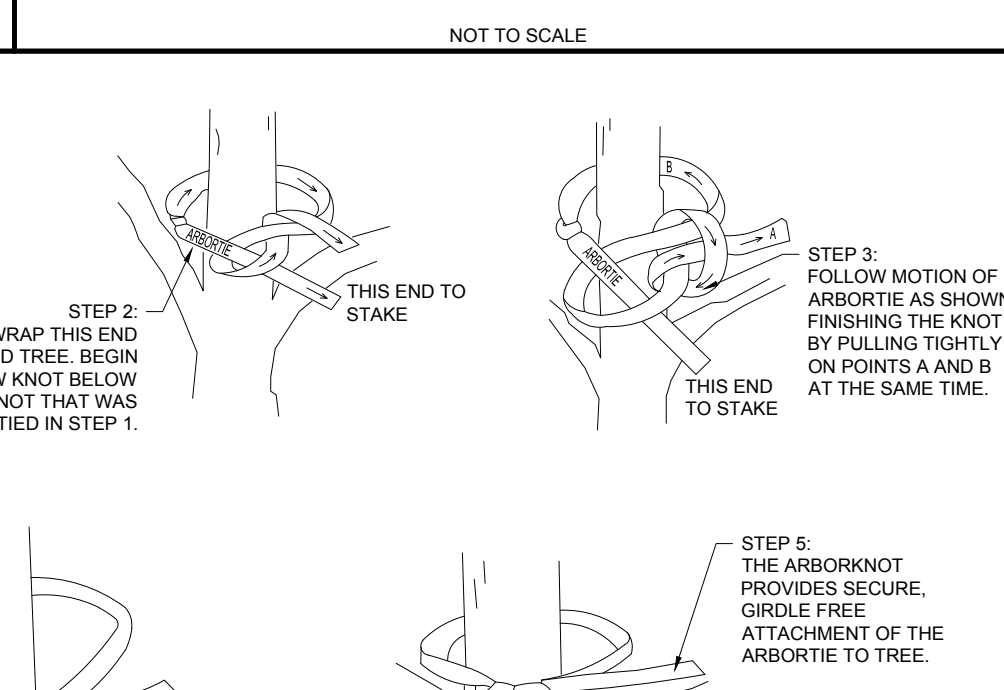
GROUND COVER PLANTING



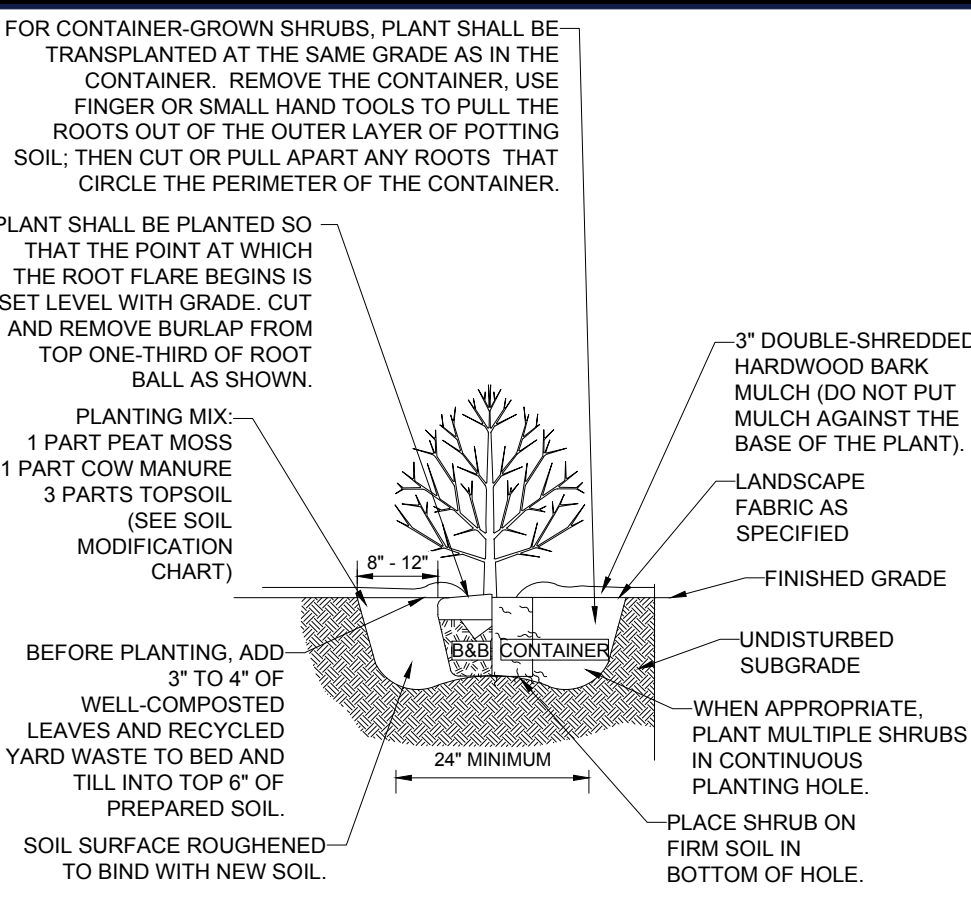
BIOPARRIER ROOT BARRIER



BLACK ALUMINUM EDGING



ARBORTIE STAKING



SHRUB PLANTING

- 1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2\"/>

HYDROSEED SPECIFICATIONS

- 1. MINIMUM ORDER: 2 LBS SPECIES: a) VIRGINIA WILD RYE (ELYMUS VIRGINICUS) b) LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)...

BOHLER logo and contact information: BOHLER SITE CIVIL AND CONSULTING ENGINEERING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

REVISIONS

Table with columns: REV, DATE, COMMENT, DRAWN BY. It is currently empty.

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PROJECT: SITE DEVELOPMENT PLANS FOR

NEW ENGLAND CONSERVATION / WILDLIFE SEED MIX SPECIFICATION

- 1. MINIMUM ORDER: 2 LBS SPECIES: a) VIRGINIA WILD RYE (ELYMUS VIRGINICUS) b) LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)...

PROPOSED SITE IMPROVEMENTS MAP: 45 | BLK: 34 | LOT: 13 315-317 SOUTHWEST CUTOFF WORCESTER COUNTY WORCESTER, MASSACHUSETTS

BOHLER logo and address: 352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900 www.BohlerEngineering.com

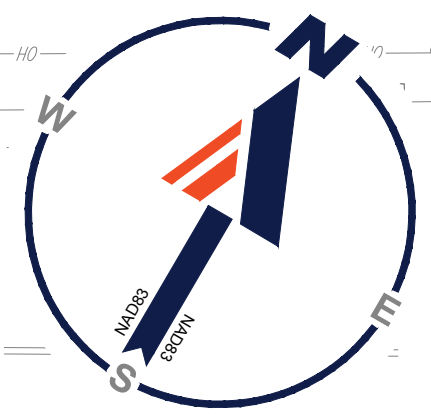


LANDSCAPE NOTES AND DETAILS

SHEET NUMBER: L-102

ORG. DATE - 10/02/2024

P:\2023\MAA23038\3038103\CAD\DRAWINGS\PLAN SET\REVISED SITE PLAN\SPR-CIVIL-LS02\MAA23038\3038103-LS02\NOTICE



SOUTHWEST CUT

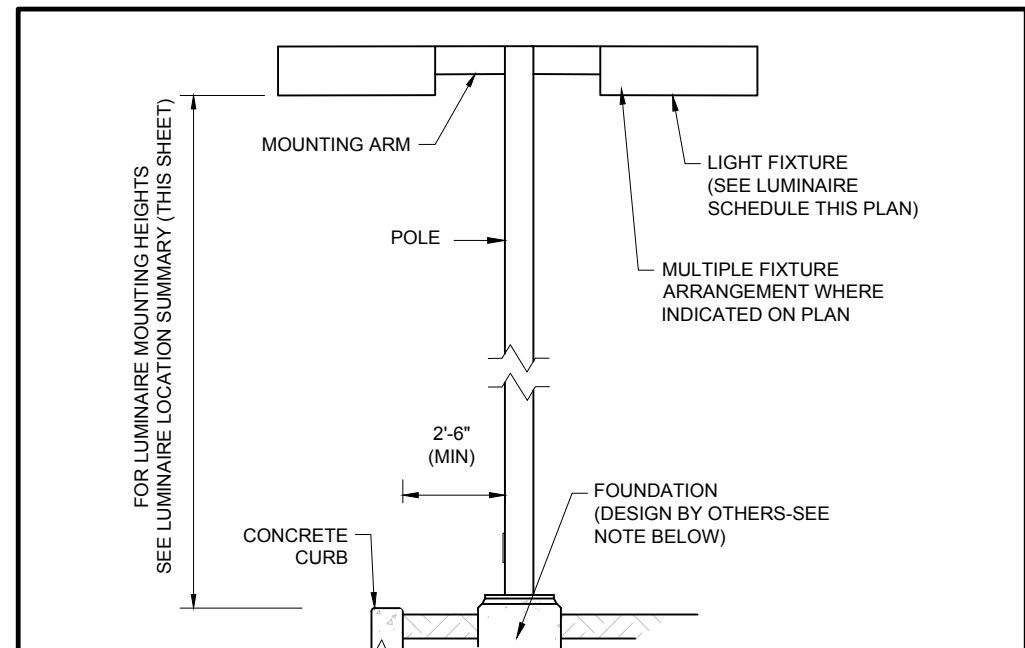
(PUBLIC RIGHT-OF-WAY - 80' W/L
LAYOUT NO. 7223-2 ROUTE 2L)

LABEL	QTY	MOUNTING HEIGHT	ARRANGEMENT	LUM. LUMENS	LLF	DESCRIPTION
P2-S	2	25'-0" AFG	SINGLE	11804	0.900	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LUMINAIRE, TYPE 2 MEDIUM, WITH HOUSE-SIDE SHIELD, ZERO UP-LIGHT (DSX1LED-P3-40K-70CRI-T2M-HS)
P3-D	1	25'-0" AFG	2 @ 90 DEGREES	13762	0.900	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LUMINAIRE, TYPE 3 MEDIUM, ZERO UP-LIGHT (DSX1LED-P3-40K-70CRI-T3M)
P3-S	2	25'-0" AFG	SINGLE	11929	0.900	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LUMINAIRE, TYPE 3 MEDIUM, WITH HOUSE-SIDE SHIELD, ZERO UP-LIGHT (DSX1LED-P3-40K-70CRI-T3M-HS)
P5-D	1	25'-0" AFG	BACK-BACK	14602	0.900	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LUMINAIRE, TYPE 5 WIDE, ZERO UP-LIGHT (DSX1LED-P3-40K-70CRI-T5W)
PF-S	1	25'-0" AFG	SINGLE	11794	0.900	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LUMINAIRE, TYPE FORWARD THROW MEDIUM, WITH HOUSE-SIDE SHIELD, ZERO UP-LIGHT (DSX1LED-P3-40K-70CRI-TFTM-HS)
W1	7	10'-0" AFF*	SINGLE	1568	0.900	LITHONIA LIGHTING, WPX LED WALL PACK, ZERO UP-LIGHT (WPX1 LED P1-40K-x)

*REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHT AND LOCATIONS

LABEL	CALCTYPE	UNITS	Avg	MAX	MIN	AVGMIN	MAXMIN
ALL POINTS	ILLUMINANCE	FC	0.25	5.7	0.0	N.A.	N.A.
DRIVE AISLE	ILLUMINANCE	FC	1.53	4.0	0.6	2.55	6.67
PARKING COURT	ILLUMINANCE	FC	1.29	2.7	0.6	2.15	4.50

SECTION	REQUIREMENTS	CALCULATIONS/PROPOSED
ARTICLE IV - USE REGULATIONS SECTION 7 - OFF-STREET PARKING AND LOADING	A. GENERAL PROVISIONS FOR OFF-STREET ACCESSORY PARKING AND LOADING 3. DESIGN STANDARDS ALL LIGHTING USED TO ILLUMINATE ANY OFF-STREET PARKING OR LOADING FACILITY SHALL BE INSTALLED SO THAT DIRECT RAYS FROM SUCH LIGHTING SHALL NOT CAUSE A PUBLIC NUISANCE TO ADJACENT PROPERTY.	PROVIDED



- NOTES:
- THIS DETAIL IS FOR BID AND BUDGETARY PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A FOUNDATION DESIGN PREPARED BY A QUALIFIED STRUCTURAL ENGINEER CONSIDERING LIGHTING MANUFACTURER REQUIREMENTS, LOCAL WIND LOADS AND SITE SPECIFIC SOIL PARAMETERS.
 - SOME SITE CONDITIONS AND/OR LOCATIONS MAY REQUIRE VIBRATION DAMPENING MEASURES AS DETERMINED BY A STRUCTURAL ENGINEER.
 - THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF THE INTENT TO MOUNT ANYTHING TO THE POLE, ASIDE FROM THE LIGHT FIXTURES, INCLUDING BUT NOT LIMITED TO CAMERAS, BANNERS, FLAGS, SIGNAGE, ETC. AS IT WILL IMPACT THE POLE AND FOUNDATION DESIGN.

AREA LIGHT

BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
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REVISIONS			
REV	DATE	COMMENT	DRAWN BY

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PROJECT No.: MAA230363-00-0B
DRAWN BY: SBB
CHECKED BY: CPB/LMD
DATE: 10/02/2024
CAD ID: P-CIVIL-LGHT

SITE DEVELOPMENT PLANS
FOR

PROPOSED SITE IMPROVEMENTS

MAP: 45 | BLK: 34 | LOT: 13
315-317 SOUTHWEST CUTOFF
WORCESTER COUNTY
WORCESTER, MASSACHUSETTS

BOHLER
352 TURNPIKE ROAD, 3rd FLOOR
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com

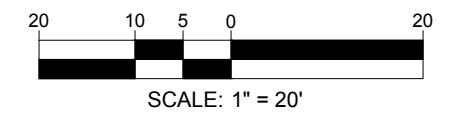


SHEET TITLE:
LIGHTING PLAN

SHEET NUMBER:
L-201

ORG. DATE - 10/02/2024

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY



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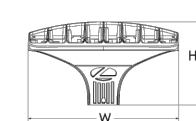
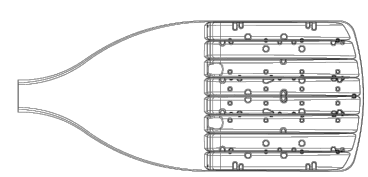


D-Series Size 1 LED Area Luminaire



Specifications

EPA: 0.69 ft² (0.06 m²)
Length: 32.71" (83.1 cm)
Width: 14.26" (36.3 cm)
Height H1: 7.88" (20.0 cm)
Height H2: 2.73" (6.9 cm)
Weight: 34 lbs (15.4 kg)



Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBX

Series	LEDs	Color Temperature	Color Rendering Index	Distribution	TSM	Type	Voltage	Housing		
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 PS	(this section 70CRI only)		AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare T4M Type IV medium T4LG Type IV low glare T4S Type V low glare TFTM Forward throw medium	TSM Type V medium T1S Type I low glare T2M Type II wide BLC3 Type III backlight control BLC4 Type IV backlight control LECO Left corner cutoff RCCO Right corner cutoff	MVOLT (120V-277V) ¹ MVOLT (347V-480V) ^{1,2}	Shipped included SPA Square pole mounting (R-drilling) RPA Round pole mounting (R-drilling) SPS Square pole mounting (S-drilling) RPS Round pole mounting (R-drilling) SPSN Square narrow pole mounting (S-drilling) WBA Wall bracket WBA Max arm adapter (mounts on 2.3/2" OD horizontal trim)	Dark bronze White Black Natural aluminum Textured white		
		(this section 80CRI only, extended lead times apply)							80CRI 80CRI 80CRI 80CRI	
		Rotated optics P10 ¹ P10 ² P11 ¹ P11 ²								80CRI 80CRI 80CRI 80CRI
		3K 3000K 4K 4000K 5K 5000K								

Control options	Other options	Finish request
Shipped installed NLTAR2 PIRHN Right AIG on 2 enabled with hi-level motion / ambient sensor 8-40" mounting height, ambient sensor enabled at 26" ^{1,2,3,4}	PER7 Seven-pin receptacle only (controls ordered separately) ^{1,2,3} FAO Field adjustable output ^{1,2,3} BL30 Bi-level switched dimming, 30% ^{4,5} BL50 Bi-level switched dimming, 50% ^{4,5} DMS 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ^{1,2} DS Dual switching ^{1,2,3}	DDBX Dark Bronze DLBK Black DNAX Natural Aluminum DWRD White DDTK Textured dark bronze DLBK Textured black DNATX Textured natural aluminum DWRD Textured white
PIR High/Low motion/ambient sensor, 8-40" mounting height, ambient sensor enabled at 26" ^{1,2,3,4}	SPD2KV 2KV surge protection HS Housecode shield (black finish standard) ^{1,2} L90 Left rotated optics ¹ R90 Right rotated optics ¹ CCE Coastal Construction ¹ HA 50°C ambient operation ¹ BAA Bay Area (AIA) Act Compliant SF Single fuse (120, 277, 347V) ¹ DF Double fuse (208, 240, 480V) ¹	
PER NEMA 7 two-pin receptacle only (controls ordered separately) ^{1,2}	Shipped separately EGSR External Glass Shield (available, field install required, matches housing finish) BSDB Bird Spikes (field install required)	

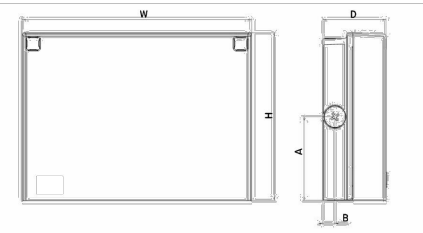
LITHONIA LIGHTING COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com DSX1 LED Rev. 09/05/23 © 2011-2023 Acuity Brands Lighting, Inc. All rights reserved. Page 1 of 10



WPX LED Wall Packs



Specifications



Luminaires	Front View		Side View		Weight
	Height (H)	Width (W)	Depth (D)	Side Conduit Location	
WPX1	8.1" (20.6 cm)	11.1" (28.1 cm)	3.2" (8.1 cm)	4.6" (11.8 cm)	6.1 lbs (2.8 kg)
WPX2	9.1" (23.1 cm)	12.3" (31.1 cm)	4.1" (10.5 cm)	4.5" (11.5 cm)	8.2 lbs (3.7 kg)
WPX3	9.5" (24.1 cm)	13.6" (34.5 cm)	5.5" (13.7 cm)	4.7" (12.0 cm)	11.0 lbs (5.0 kg)

Ordering Information

EXAMPLE: WPX2 LED 40K MVOLT DDBX

Series	Color Temperature	Voltage	Options	Finish
WPX1 LED P1	1,550 Lumens, 11W ¹	30K 3000K	MVOLT 120V-277V	(Blank) None
WPX1 LED P2	2,900 Lumens, 24W	40K 4000K	347 347V ¹	E4WH Emergency battery backup, CEC compliant (4W, 0°C min) ²
WPX2 LED	6,800 Lumens, 47W	50K 5000K		E4HW Emergency battery backup, CEC compliant (14W, -20°C min) ²
WPX3 LED	9,200 Lumens, 69W			FE PhotoCell ³

Note: The lumen output and input power shown in the ordering tree are average representations of all configuration options. Specific values are available on request.

INTENDED USE
The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-to-one replacement of existing HID wall packs. The WPX1, WPX2 and WPX3 are ideal for replacing up to 50W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution. WPX is rated for -40°C to 40°C.

CONSTRUCTION
WPX features a die-cast aluminum main body with optional thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

ELECTRICAL
Light engine configurations consist of high efficacy LEDs and LED lumen maintenance of 100,000 hours. Color temperature (CCT) options of 3000K, 4000K and 5000K with minimum CRI of 70. Electronic drivers ensure system power factor >90% and THD <20%. All luminaires have 6kV surge protection (these WPX LED P1 package comes with a standard surge protection rating of 2.5kV. It can be ordered with an optional 6kV surge protection). All photoCell (PC) operate on MVOLT (120V-277V) input.

Note: The standard WPX LED wall pack luminaires come with field-adjustable drive current feature. This feature allows tuning the output current of the LED drivers to adjust the lumen output to dim the luminaire.

INSTALLATION
WPX can be mounted directly over a standard electrical junction box. Three 1/2 inch conduit ports on three sides allow for surface conduit wiring. A port on the back surface allows pole through-conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LED's facing downwards.

LISTINGS
CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated. DesignLight Consortium (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.dlcqualified.com to confirm which versions are qualified. International Dark Sky Association (IDA) Future Seal of Approval (PSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY
System limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/CustomersResources/Forms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

LITHONIA LIGHTING COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com WPX LED Rev. 07/01/24

LITHONIA D-SERIES SIZE 1 LED AREA LUMINAIRE

LITHONIA WPX LED WALL PACKS

BOHLER
SITE CIVIL AND CONSULTING ENGINEERING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY

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PROJECT No.: MAA230363-00-0B
DRAWN BY: SBB
CHECKED BY: CPB/LMD
DATE: 10/02/2024
CAD ID: P-CIVIL-LGHT

SITE DEVELOPMENT PLANS FOR

PROPOSED SITE IMPROVEMENTS

MAP: 45 | BLK: 34 | LOT: 13
315-317 SOUTHWEST CUTOFF
WORCESTER COUNTY
WORCESTER, MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD, 3rd FLOOR
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com

SHEET TITLE:
LIGHTING NOTES AND DETAILS

SHEET NUMBER:
L-202

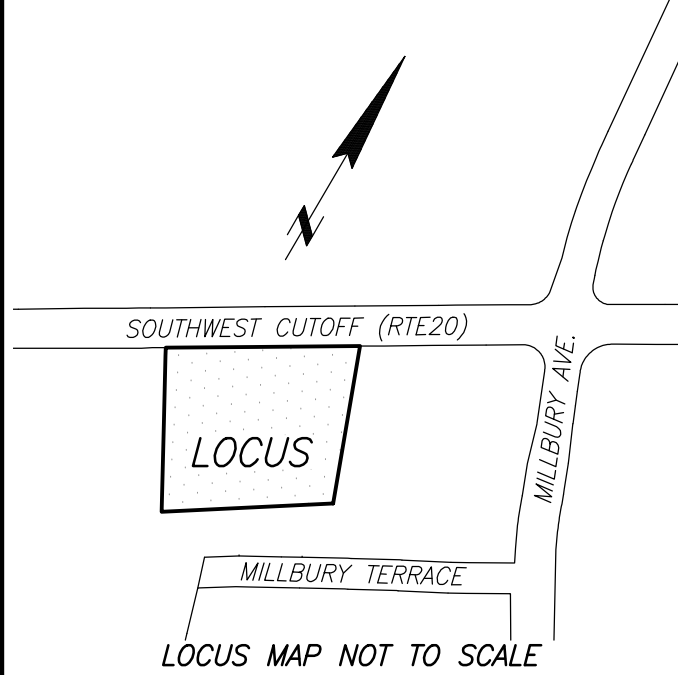
ORG. DATE - 10/02/2024

P:\2023\MAA230363-00\CAD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\SP-CIVIL-LGHT\MAA230363-00-0B-...-LAYOUT_1_L-202.NOTE

BOSTON HEADQUARTERS
152 HAMPDEN STREET
BOSTON, MA 02119

WORCESTER OFFICE
27 MECHANIC STREET
WORCESTER, MA 01608

(617)357-9740
www.feldmangeo.com



I CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY AND THE LATEST PLANS AND DEEDS OF RECORD.

DRAFT 6/28/2024

TIMOTHY R. AGURKIS, PLS DATE
(MA# 52782)
TAGURKIS@FELDMANGEO.COM

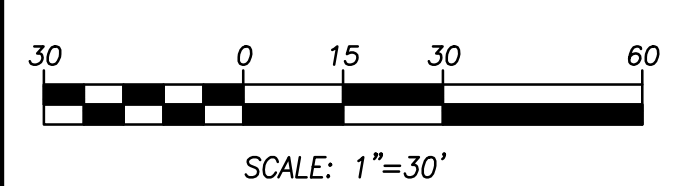
DRAWING NAME:
**EXISTING CONDITIONS
PLAN OF LAND**
317 SOUTHWEST CUTOFF
WORCESTER, MASS.

DATE: JUNE 19, 2024

REVISIONS:

FILENAME: 2400627-EX.dwg

RESEARCH: JG	FIELD CHIEF: KF
PROJ MGR: JG	APPROVED:
CALC: JG	CADD: HF
FIELD CHK: JG	CRD FILE: 2400627-EX



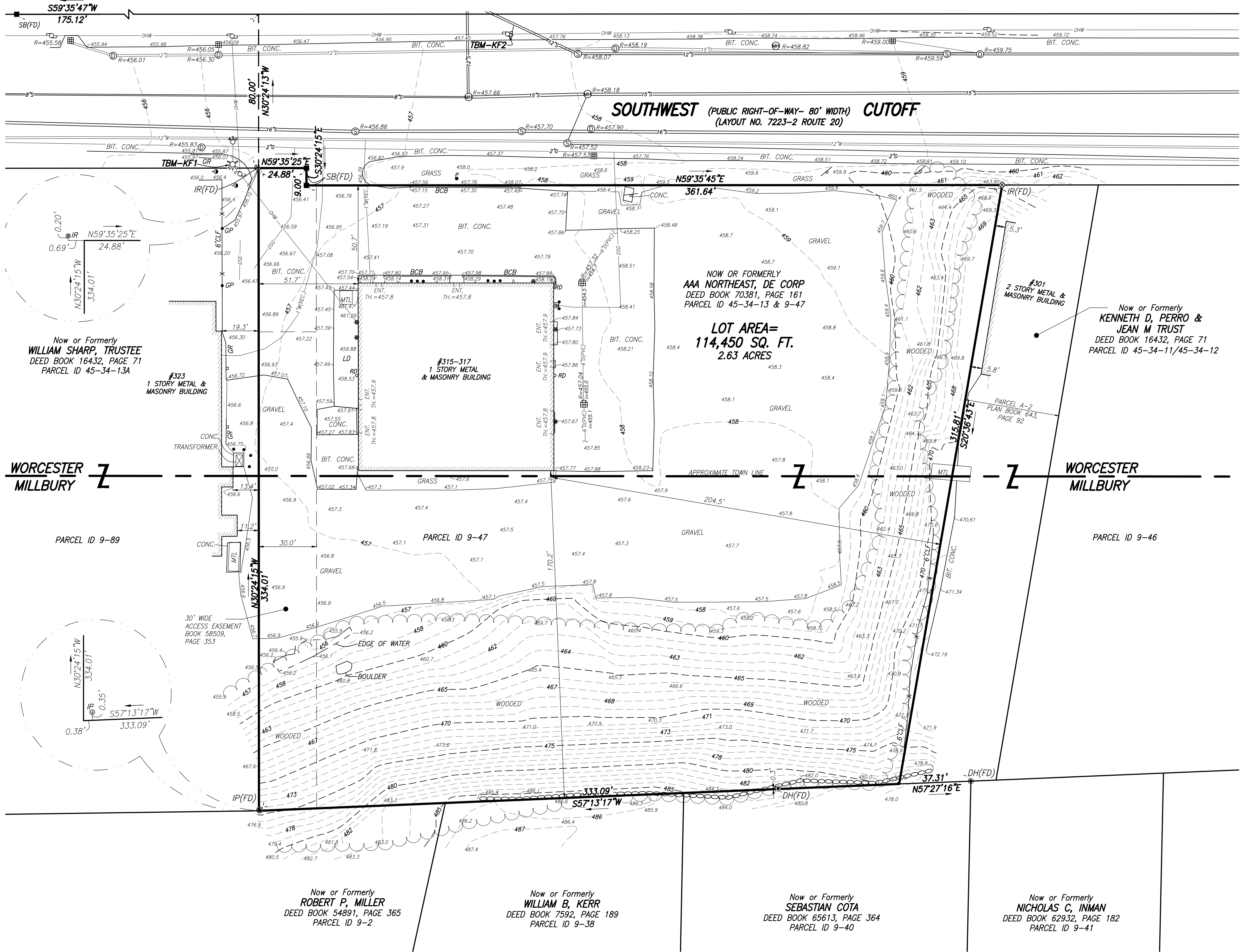
NOTES:

- BENCH MARK INFORMATION:
BENCH MARK USED:
ELEVATIONS WERE OBTAINED BY GPS OBSERVATIONS ON 6/19/2024.
TEMPORARY BENCH MARKS SET:
TBM-KF1: X-CUT IN FRONT OF LEFT BOLT OVER MAIN OPENING ON HYDRANT AT 315-317 SOUTHWEST CUTOFF, AS SHOWN HEREON. ELEVATION = 458.03
TBM-KF2: RAILROAD SPIKE SET IN UTILITY POLE #73 ALONG NORTHERLY SIDELINE OF SOUTH WEST CUTOFF, AS SHOWN HEREON. ELEVATION = 459.04
- ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- CONTOUR INTERVAL EQUALS ONE (1) FOOT.
- BY GRAPHIC PLOTTING ONLY, THE PARCEL SHOWN HEREON LIES WITHIN A ZONE "X" (UNSHADED), AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAP (F.I.R.M.) FOR WORCESTER COUNTY, MASSACHUSETTS, MAP NUMBER 25027C0807E, TOWN OF WORCESTER, HAVING AN EFFECTIVE DATE OF JULY 4, 2011.
- UTILITY INFORMATION SHOWN IS BASED ON BOTH A FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. WE CANNOT ASSUME RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES THAT ARE OMITTED OR INACCURATELY SHOWN ON SAID RECORD PLANS. SINCE SUBSURFACE UTILITIES CANNOT BE VISIBLY VERIFIED, BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHOULD BE DETERMINED IN THE FIELD. CALL, TOLL FREE, THE DIG SAFE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
- THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF FELDMAN GEOSPATIAL ISSUED TO OUR CLIENT FOR PURPOSES RELATED DIRECTLY AND SOLELY TO FELDMAN GEOSPATIAL'S SCOPE OF SERVICES UNDER CONTRACT TO OUR CLIENT FOR THIS PROJECT. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN CONSENT IS PROVIDED BY FELDMAN GEOSPATIAL.



REFERENCES PLANS

- WORCESTER COUNTY REGISTRY OF DEEDS
- PLAN OF LAND OF POINTED ROCK CONDOMINIUM, DATED JULY 10, 1986, BY BOULEY BROTHERS INC. PLAN BOOK 561, PLAN 17.
 - EASEMENT PLAN OF LAND OF UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT, DATED APRIL 23, 2021, BY DAVID E. ROSS ASSOCIATES, INC. PLAN BOOK 956, PLAN 88.
 - PLAN OF LAND OF WORCESTER ACRES, DATED SEPTEMBER 30, 1946, BY W.T. MOORE ENGR. BOOK 141, PLAN 122.
 - SUBDIVISION PLAN OF LAND OF MILLBURY TERRACE, DATED OCTOBER 13, 1948, BY KENNETH SHAW. PLAN BOOK 156, PLAN 40.
 - PLAN OF LAND OF GARRY N. BEAN, DATED SEPTEMBER 1, 1977, BY CULLINAN ENGINEERING CO. PLAN BOOK 455, PLAN 19.
 - PLAN OF LAND OF KENNETH D. FERRO, DATED APRIL 19, 1990, BY BOULEY BROTHERS INC. PLAN BOOK 643, PLAN 92.
 - SUBDIVISION PLAN OF LAND OF BOB MILLER'S WAY, DATED MARCH 18, 2013, BY ALPHA OMEGA ENGINEERING INC. PLAN BOOK 899, PLAN 91.
 - PLAN OF LAND OF MILLBURY TERRACE, DATED SEPTEMBER 22, 1947, BY C.M. BROUGH. PLAN BOOK 145, PLAN 87.
 - EXHIBIT PLAN OF 315-317 SOUTHWEST CUTOFF, DATED FEBRUARY 26, 2016, BY J.M. GRENIER ASSOCIATES INC. PLAN BOOK 58509, PLAN 355.



LEGEND

- ⊙ Sewer Manhole
- ⊙ Drain Manhole
- ⊙ Hydrant
- ⊙ Catch Basin
- ⊙ Water Shut Off/Water Gate
- ⊙ D-Frame Catch Basin
- ⊙ Guy Wire
- ⊙ Utility Pole
- ⊙ Light Pole
- ⊙ Walk Light
- ⊙ Bollard
- ⊙ Post
- ⊙ Sign
- ⊙ RD Roof Drain
- ⊙ Magnail
- ⊙ Drill Hole
- ⊙ Bound Found with Drill Hole
- ⊙ Lead Plug and Tack
- ⊙ Iron Pipe
- ⊙ Iron Rod
- ⊙ Transformer
- BCB Bit. Conc. Berm
- BFA Building Footprint Area
- BIT. Bituminous
- BW Bottom of Wall
- CB Concrete Bound
- CLF Chain Link Fence
- CONC. Concrete
- DH Drill Hole
- ENT Entrance
- FD Found
- GR Guard Rail
- I Invert Elevation
- IP Iron Pipe
- IR Iron Rod
- LD Loading Dock
- MTL Metal
- R Rim Elevation
- SB Stone Bound
- SQ FT. Square Feet
- SRW Stone Retaining Wall
- TBM Temporary Bench Mark
- TH Threshold
- Utility Continues to Unknown Destination
- GP Gate Post
- (REC) Record
- D Drain
- G Gas
- OHW Overhead Wires
- S Sewer
- W Water
- 12" D(C) Pipe Size and Material
- PVC Polyvinyl Chloride
- X X Metal Fence
- Guard Rail
- Stone Wall
- DSE Digsafe Electric