ATTACHMENT 1

CIVIL PLANS

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

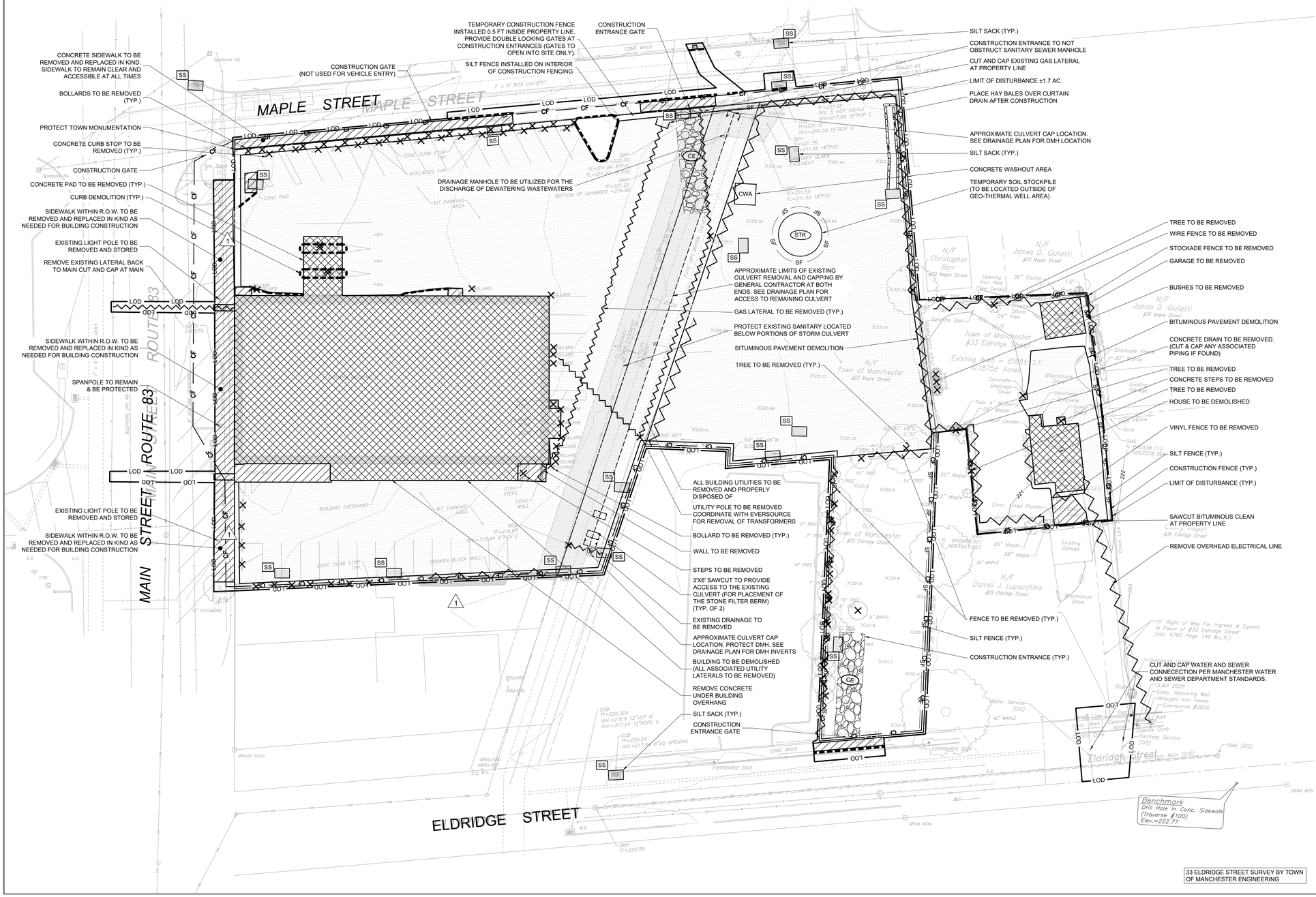
The National Map US Topo

MANCHESTER QUADRANGLE
CONNECTICUT - CAPITOL PLANNING REGION
7.5-MINUTE SERIES

-72.6250°
41.8750°
698000mE
XM
YM
-72.5000°
4638000mN
4626000mN
Bancroft Airport
East Windsor Hill
Farnhams
Wapping
South Windsor
Burnham
Buckland
Talcottville
Oakland
Manchester Green
MANCHESTER
EAST HARTFORD
Burnside
Mayberry Village
Wickham Hill
Hilliardville
Scantic River
Connecticut River
Podunk River
Dry Brook
Bancroft Brook
Brickyard Pond
Stoughton Brook
Newberry Brook
Podunk Pond
Plum Gulley Brook
Willges Brook
Burnham Brook
Cast and Blast Pond
Farm Brook
Hockanum River
Hockanum River Reservoir
Bigelow Brook
South Fork Hockanum River
Willow Brook
Pewterpot Brook
Folly Brook
Keeney Street Pond
Wetherell Pond
Union Pond
Lydall Brook
Salter Pond
Hop Brook
Birch Mountain Brook
Porter Brook
Averys Brook
Rye Street Cem
East Windsor Hill Cem
Edwards Cem
Center Cem
Old Wapping Cem
New Wapping Cem
Saint Mary's Cem
Hillside Cem
West Cem
Silver Lane Cem
Tudor Hill
Toby Hill
Laurel Park Hill
Saint John's Cem
Saint Bridgets Cem
Buckland Cem
Saint James Cem
East Cem
Beth Sholom Memorial Park
Manchester Community College
Hillstown Cem
State of Connecticut Superior Court - Geographical Area 12 at Manchester
Acad Hill
Mt Nebo
Sunset Ridge
Charter Oak-Greenway Trl
Main River Trl
Sullivan Ave
Ellington Rd
Wapping Wood Rd
Sand Hill Rd
Windsorville Rd
Rockville Rd
Windsorville Rd
Ketchbrook Ln
Jonathan Dr
Hayes Ave
Hillsdale Dr
Griffin Rd
Morris Rd
Wapping Rd
Scantic Meadow Rd
Oakwood Dr
John Fitch Blvd
S Main St
Ferry Ln
Commerce Way
Rye St
Troy Rd
Brookfield St
Wentworth Dr
Farnham Rd
McGrath Rd
Scantic Rd
Main St
Strong Rd
Edwin Rd
Nuthegs Rd N
Governors Hwy
Vibert Rd
Edgewood Dr
Cody Cir
Beldon Rd
Judy Ln
S Satellite Rd
Pleasant Valley Rd
Nutmeg Rd S
Pepin Pl
Hilton Dr
Long Hill Rd
Quarry Brook Dr
Stanley Dr
Chapel Rd
Muriel Dr
Gail Ln
Ledoll Blvd
Cinnamon Woods Rd
Austin Cir
Smith St
Arthur Dr
Wheeler Rd
Jacques Ln
Margaret Dr
Clark St
Croft Dr
Burnham St
King St
Corporate Pl
Syracuse Dr
Cornell Cir
Colby Dr
Andover Rd
Alps Dr
Goodwin St
Leverich Dr
Prestige Park Rd
Prestige Park Cir
Henderson Dr
School St
Columbus St
Laurel St
Park Ave
Tolland St
Burnside Ave
Larrabee St
Scotland Rd
Great Hill Rd
Woodlawn Cir
Arbutus St
Christine Dr
Downey Dr
Arnold Dr
Middle Tpke W
Hillside Ter
Hillside Cir
Roberts St
Chester St
Ridgewood Rd
Forbes St
Sonata Dr
Summit St
Sunset Ridge Dr
Cipolla Dr
Nutmeg Ln
Clement Rd
Silver Ln
Brentwood Rd
Birchwood Rd
Holland Ln
Wildflower Rd
Fenney Dr
Deborah Dr
Janet Dr
Naomi Dr
Sandra Dr
Rolling Meadow Dr
Hartz Ln
2nd
E Hartford Blvd N
Forest St
Lydall Rd
Grande Rd
Melton Dr
Rowland Dr
Anita Dr
Oak St
Birnbrook Dr
Woodside St
Cougar Dr
Hillstown Rd
Ralph Rd
Ramey Dr
Folly Brook Ln
Lakewood Cir N
Lakewood Cir S
Hercules Dr
Walek Farms Rd
Garden Grove Rd
Linwood Dr
Leland Dr
Briarwood Dr
Longview Dr
Nimas Way
Pela Dr
Keeney St
Bidwell St
Diane Dr
Hackmatack St
Folly Brook Ln
Dartmouth Rd
S Farms Dr
Carriage Dr
Sunnybrook Dr
Fern St
Spring St
Gardner St
Mather St
Avondale Rd
Green Rd
Helaine Rd
Bretton Rd
Lydall St
Coleman Rd
Woodbridge St
N Main St
Cushman Dr
Scott Dr
Sheldon Rd
Colonial Rd
Progress Dr
Tudor Ln
Rachel Rd
Utopia Rd
Baker St
Oakland St
Union St
John Olds Dr
Redstone Rd
Horizon Way
Dogwood Ln
Cherry Cir
Pavilion Dr
Buckland St
Deming St
Oakland Rd
Loomis Rd
Slater St
Gilbert Ln
Cardinal Way
Tamarack Ave
Buckland Rd
Buckland Hills Dr
Tolland Tpke
Hale Rd
Avery St
Concord Rd
Carman Rd
Bryan Dr
Pond Ln
Main St
Taylor St
Harte Dr
Welles Rd
Sanrico Dr
Om Rd
Gwen Dr
Ellington Rd
Norton Ln
Kent Ln
Cornerstone Dr
Pine Knob Dr
Dogwood Ln
Oak St
Woodland Dr
Laurel St
Kelly Rd
Gray Rd
Clinton Dr
Orchard Hill Dr
Pine Tree Ln
Benedict Dr
Diane Dr
Gerber Rd W
Krawski Dr
Mohegan Trl
Bayberry Trl
Berry Patch
Griswold St
Edgerton St
Olcott St
Thompson Rd
W Center St
Center St
St John St
Greenwood Dr
Palmer Dr
Valley View Dr
Deepwood Dr
Birch Hill Dr
Scott Dr
Felt Rd
Greenwood Dr
Foster St
Foster St Exd
Bourbon St
Windshire Dr
Brambleberry
Rosemary Ln
Mark Dr
Lake St
Nevers Rd
Avers Rd
Collins Xing
Abbe Rd Exd
Carriage Dr
Ellington Rd
Sand Hill Rd
Sand Stone Dr
Beelzebub Rd
Abbe Rd
Robert Dr
Old Farm Rd
Maxkel Rd
Garnet Ln
Rockledge Dr
Wood Pond Rd
Frazier Fir Rd
Cambridge Dr
Miller Rd
Berle Rd
Hayes Rd
Steep Rd
Graham Rd
Skyline Dr
High St
Morgan Farms Dr
Hillside Dr
Brookfield St
Overlook Rd
Farmstead Dr
Brook St
Barber Hill Rd
Niederwerfer Rd
Grant Rd
Natsisky Farm Rd
Debbie Dr
Cliffwood Dr
Spinner Run
Heatherwood Dr
Rimfield Dr
Dart Hill Rd
Lawrence Rd
Avery St
Quail Run
Pheasant Way
Trumbull Ln
Talcott Ridge Rd
Fairview Dr
Homestead Dr
Tumblebrook Dr
Westerly St
Hilliard St
Woodland St
Chambers St
Irving St
Homestead St
Hawthorne St
Oxford St
Cambridge St
Delmont St
Middle Tpke E
Brent Rd
Bolton St
Broad St
Summit St
Main St
Brookfield St
Benton St
Lenox St
Walker St
E Center St
Pitkin St
Glenwood St
Autumn St
E Eldridge St
Maple St
Eldridge St
School St
Wells St
Charter Oak St
Cooper Hill St
Forest St
Elm St
Park St
Chestnut St
Pine St
Cedar St
Cooper St
West St
High St
Waddell Rd
Lyness St
McKee St
Pearl St
Birch St
Bissell St
Florence St
Oak St
Spruce St
Hartford Rd
Adams St
New State Rd
Broadleaf Blvd
Middle Tpke W
Brent Rd
Bolton St
Broad St
Hamlan St
White St
N Elm St
Henry St
Tanner St
Washington St
Hollister St
Delmont St
Princeton St
Pitkin St
Glenwood St
Autumn St
E Eldridge St
Gwen Dr
Om Rd
Sanrico Dr
Harte Dr
Welles Rd
Taylor St
Main St
Bryan Dr
Pond Ln
Avery St
Concord Rd
Carman Rd
Tolland Tpke
Hale Rd
Buckland Hills Dr
Union St
Oakland St
Tudor Ln
Rachel Rd
Utopia Rd
Baker St
Progress Dr
Colonial Rd
Sheldon Rd
Scott Dr
Cushman Dr
Lydall St
Coleman Rd
Mather St
Woodbridge St
N Main St
Avondale Rd
Green Rd
Helaine Rd
Bretton Rd
Trumbull Ln
Talcott Ridge Rd
Cornerstone Dr
Pine Knob Dr
Dogwood Ln
Oak St
Woodland Dr
Laurel St
Kelly Rd
Gray Rd
Clinton Dr
Orchard Hill Dr
Pine Tree Ln
Benedict Dr
Diane Dr
Gerber Rd W
Krawski Dr
Mohegan Trl
Bayberry Trl
Berry Patch
Griswold St
Edgerton St
Olcott St
Thompson Rd
W Center St
Center St
St John St
Greenwood Dr
Palmer Dr
Valley View Dr
Deepwood Dr
Birch Hill Dr
Scott Dr
Felt Rd

DEMOLITION AND EROSION CONTROL LEGEND

- EXISTING PROPERTY LINES
- SILT FENCE BARRIER (SF)
- LIMIT OF DISTURBANCE (LOD)
- CONSTRUCTION FENCE (CF)
- HAY BALE BARRIER
- CURB DEMOLITION
- FENCE/WALL DEMOLITION
- UTILITY DEMOLITION
- SITE ITEM TO BE REMOVED
- SILT SACK
- TEMPORARY CONCRETE WASHOUT (CWA)
- TEMPORARY STOCKPILE (STK)
- TREE PROTECTION (P)
- CONSTRUCTION ENTRANCE (CE)
- CONCRETE SIDEWALK/PAD DEMOLITION
- BITUMINOUS PAVEMENT DEMOLITION
- BUILDING/CANOPY DEMOLITION



CONSTRUCTION SEQUENCE

1. CONDUCT A PRE-CONSTRUCTION MEETING WITH APPLICABLE PARTIES.
2. INSTALL CONSTRUCTION ENTRANCE AND CATCH BASIN INSERTS
3. INSTALL PERIMETER CONTROLS AND TREE PROTECTION
4. REMOVE EXISTING ITEMS IN CONFLICT WITH PROPOSED WORK.
5. PERFORM BULK EARTHWORK OPERATIONS.
6. BEGIN BUILDING FOUNDATION CONSTRUCTION.
7. CONSTRUCT SITE UTILITIES.
8. CONSTRUCT HARDSCAPE.
9. CONSTRUCT LANDSCAPE ELEMENTS AND OTHER SITE AMENITIES.
10. AT THE CONCLUSION OF CONSTRUCTION, AND UPON SITE STABILIZATION, CLEAN THE ENTIRETY OF THE ON-SITE STORM SEWER

DEMOLITION NOTES:

1. ANY TREE WITHIN TOWN-OWNED RIGHT OF WAY OR PROPERTY TO BE CUT, PRUNED OR REMOVED SHALL REQUIRE POSTING IN ACCORDANCE WITHE THE CONNECTICUT GENERAL STATUTES. CONTACT THE TOWN OF MANCHESTER FIELD SERVICES DIVISION (MANCHESTER TREE WARDEN) AT 860-647-3233. MINIMUM 14-DAY NOTICE TO THE MANCHESTER TREE WARDEN IS REQUIRED. NO TREE CUTTING, PRUNING OR REMOVAL TO BE CONDUCTED WITHOUT REVIEW AND WRITTEN APPROVAL FROM THE MANCHESTER TREE WARDEN. REFER TO SECTION 6.09 OF THE TOWN OF MANCHESTER PUBLIC IMPROVEMENT STANDARDS FOR ADDITIONAL INFORMATION.
2. PROJECT SMH: ACCESS TO BE PROVIDED TO TOWN OF MANCHESTER AT ALL TIMES.

GEOTHERMAL DEWATERING NOTES:

1. THE EXISTING 3'X10' CULVERT, WHICH IS TO BE REMOVED, SHALL BE LEFT IN PLACE AND UTILIZED FOR THE GEOTHERMAL DEWATERING, AND REMOVED ONLY AFTER ALL GEOTHERMAL DRILLING (WHICH GENERATES DEWATERING WASTEWATERS) IS COMPLETE.
2. SAWCUT AND REMOVE TWO (2) 3'X3' SECTIONS OF THE EXISTING CULVERT NEAR THE SOUTHERNMOST END OF THE PORTION OF THE CULVERT TO BE REMOVED, AND UTILIZE THESE CUTS AS ACCESS TO PLACE A STONE FILTER BERM AT EACH CUT LOCATION. THE BERMS SHALL BE PLACE APPROXIMATELY 10' APART. THE OPENINGS SHALL BE COVERED WITH 5'X5' (MINIMUM) METAL PLATES, WHICH SHALL BE H-20 LOADED. THE CONTRACTOR HAS THE OPTION OF CUTTING A LARGER HOLE PROVIDED HE CAN PROVIDE A STEEL PLATE THAT COMFORTABLY SITS ON TOP OF, AND COVERS, THE HOLE.
3. PLACE STONE FILTER BERMS ACROSS THE ENTIRETY OF THE CULVERT IN BOTH LOCATIONS. (SEE DETAILS)
4. FOR DEWATERING OPERATIONS, CONSTRUCT A TEMPORARY SEDIMENT TRAP (TST) (15'X15'X2.5') DOWNGRADIANT OF THE DRILLING LOCATION, PLACED SUCH THAT THE DEWATERING WASTEWATERS DRAIN TO THE TST. IT IS ANTICIPATED THAT THE DRILLING OPERATIONS WILL PRODUCE APPROXIMATELY 300 GPM THAT WILL FLOW TO THE TST AND THESE DIMENSIONS WILL HOLD APPROXIMATELY 5,500 GALLONS OF DEWATERING WASTEWATER. ONE OR MORE PUMPS SHALL BE UTILIZED TO PUMP A MINIMUM OF 350 GPM TO THE EXISTING DMH (SHOWN ON THIS PLAN) THAT IS OVER THE EXISTING CULVERT AND LOCATED ADJACENT THE NORTH PROPERTY LINE.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE MEASURES SPECIFIED HEREON ARE THE MINIMUM REQUIREMENTS FOR E&S CONTROL AND ARE SHOWN IN GENERAL SIZE AND LOCATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL E&S CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO ANY RESOURCE AREAS. ALL EROSION CONTROLS SHALL BE INSTALLED PRIOR TO ANY SITE WORK. CONTROLS SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAINFALL. EXCAVATED MATERIAL SHOULD NOT BE DISPOSED OF IN THE WETLAND AREA. PROVIDE ADDITIONAL E&S MEASURES AS REQUIRED TO CONTROL EROSION AND SILTATION THROUGHOUT THE DURATION OF THE CONSTRUCTION AS CONDITIONS DICTATE AND/OR AS DIRECTED BY THE OWNER OR THE ENGINEER.
2. MONITOR AND INSPECT ALL E&S MEASURES IN AN ONGOING MANNER THROUGHOUT THE WORK AND TAKE CORRECTIVE MEASURES, AS REQUIRED, TO MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO ANY RESOURCE AREAS.
3. ANY EROSION AND SEDIMENTATION MEASURE IMPLEMENTED BEYOND THAT SHOWN HEREON SHALL CONFORM TO APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT'S GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
4. ANY STOCKPILED MATERIAL SHALL BE SUBJECT TO EROSION CONTROL MEASURES THAT INCLUDE A MINIMUM OF SILT FENCE OR HAY BALE BARRIER. COVER STOCKPILES IF SIGNIFICANT RAINFALL IS PREDICTED.
5. PROVIDE TEMPORARY SEEDING, IN ACCORDANCE WITH THE TOWN OF MANCHESTER PUBLIC IMPROVEMENT STANDARDS,WITH MULCH ON ALL EXPOSED SOIL AREAS WHERE WORK WILL BE SUSPENDED FOR LONGER THAN 30 DAYS. APPLY SEED AND MULCH WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK. WHEN SEEDING IS NOT POSSIBLE DUE TO SEASONAL WEATHER CONDITIONS OR OTHER FACTORS, PROVIDE TEMPORARY STRUCTURAL SOIL PROTECTION SUCH AS MULCH, WOODCHIPS, EROSION CONTROL MATTING, OR COMPOST.
6. ALL TEMPORARY SLOPES IN EXCESS OF 3 (HORIZONTAL) TO 1 (VERTICAL) SHALL BE STABILIZED WITH EROSION CONTROL MATTING OR APPROVED EQUIVALENT.
7. NO RUNOFF SHALL BE ALLOWED TO ENTER ANY STORMWATER SYSTEM OR EXIT THE SITE PRIOR TO TREATMENT FOR SEDIMENT REMOVAL.
8. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS. ALL TRASH SHALL BE CLEANED ON A DAILY BASIS AND THE SITE SHALL BE LEFT IN A NEAT CONDITION AT THE END OF EACH WORK DAY.
9. TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS AND ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION, CONTROL, AND RESPONSE.
10. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER AND MAINTAIN ADEQUATE MOISTURE LEVELS.
11. SWEEP ADJACENT ROADWAYS IF MUD OR SOIL IS TRACKED ON TO THEM, OR AS DIRECTED BY THE ENGINEER, OR OWNER. ADDITIONAL SWEEPING MAY BE REQUIRED IN COORDINATION WITH OTHER TOWN EVENTS AND ACTIVITIES IN THE AREA.
12. NO STORAGE OF MATERIALS WITHIN THE TOWN RIGHT OF WAY. NO LOADING OR UNLOADING OF MATERIALS OUTSIDE THE LIMITS OF THE DESIGNATED EROSION & SEDIMENTATION CONTROL PERIMETER BARRIER WITHOUT REVIEW AND APPROVAL BY THE TOWN.

WORK IN R.O.W.:

1. ANY WORK WITHIN THE TOWN OF MANCHESTER R.O.W. MUST BE COORDINATED WITH TOWN ENGINEERING.
2. SIDEWALK REPLACEMENT TO BE REPLACED IN KIND AND TO THE TOWN OF MANCHESTER STANDARDS.

FRIAR
architecture interior design master planning
21 Talcott Notch Road Farmington, CT 06032
friar.com 860.678.1291

PROFESSIONAL SEAL

HBM ARCHITECTURE INTERIOR DESIGN
HBM Architects, LLC
1382 W. Ninth Street, Suite 300
Cleveland, Ohio 44113
PH: 216.241.1100
CONSULTANT

benesch
Benesch
120 Hebron Avenue, 2nd Floor
Glastonbury, Connecticut 06033
860-633-8341

MANCHESTER PUBLIC LIBRARY

PHASE 1

1041 Main Street, Manchester, CT 06040

REVISIONS

NO.	DATE	DESCRIPTION
1	10-25-2024	P1 - BULLETIN #1
2	11-01-2024	P1 - BULLETIN #2
3	03-13-2025	PR-001 Revised
4	09-15-2025	E&S Plan Submission
5	09-19-2025	PR-23 - Carport/Rear Lot
6	11-24-2025	PR-24 - Utility Area
7	04-28-2026	PR-36 - BESS Relocation

MANCHESTER LIBRARY

SITE PREPARATION AND EROSION CONTROL PLAN

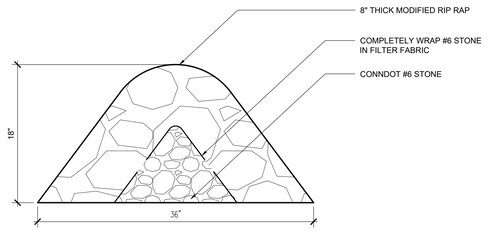
DATE: 09/23/2024
SCALE 1" = 20'-0"
PROJ. #: 70757.01
DRAWN: RLC
CHECKED: WGW

SHEET NO.

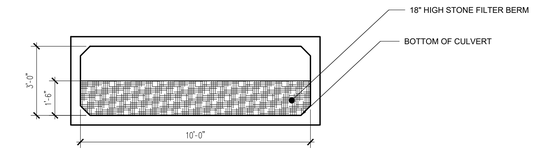
C1.0

INSPECTION AND MAINTENACE SCHEDULE

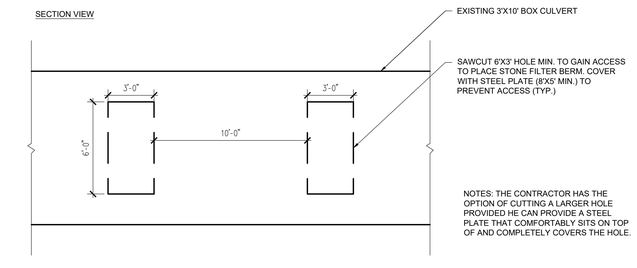
ITEM	CRITERIA	FREQUENCY
CATCH BASIN INSERT	CLEAN CATCH BASIN GRATE, REMOVE SEDIMENT/DEBRIS FROM FILTER INSERTS	WEEKLY & WITHIN 24 HOURS AFTER STORM GENERATING A DISCHARGE
SILT FENCE	REPAIR/REPLACE WHEN FAILURE OBSERVED, REMOVE SILT WHEN ACCUMULATION REACHES APPROX. HALF HEIGHT OF BARRIER	WEEKLY & WITHIN 24 HOURS AFTER STORM GENERATING A DISCHARGE
CONSTRUCTION ENTRANCE	SWEEP PAVED ROADWAY ADJACENT TO SITE ENTRANCE AS NECESSARY, REFRESH STONE AS NECESSARY, REMOVE SILTED GRAVEL	WEEKLY
EXPOSED SOILS	PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS AND KEEP TRAVELWAYS DAMP	DAILY



SECTION VIEW FILTER BERM



SECTION VIEW



PLAN VIEW

STONE FILTER BERM DETAIL

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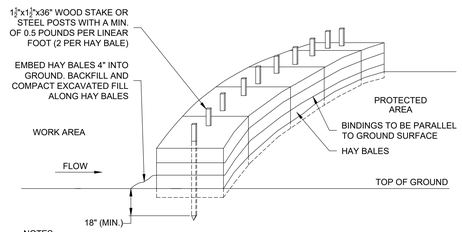
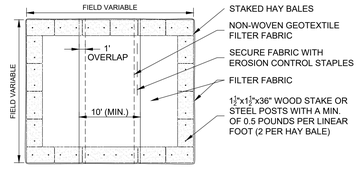


NOTES:

1. HAY BALES SHALL BE MADE OF HAY OR STRAW WITH 40 POUND MIN. WEIGHT AND 120 POUND MAX. WEIGHT HELD TOGETHER BY TWINE OR WIRE.
2. PLACE HAY BALES ON CONTOUR AND WING THE LAST HAY BALES UP SLOPE SO THAT THE TOP OF THE LAST SEVERAL HAY BALES ARE HIGHER THAN THE LINE OF HAY BALES.
3. DRIVE FIRST STAKE IN EACH BALE TOWARD THE PREVIOUSLY LAID BALE TO FORCE THEM TOGETHER.
4. PUT ONE HAY BALE PERPENDICULAR ALONG HAY BALE BARRIER EACH 100 FEET.

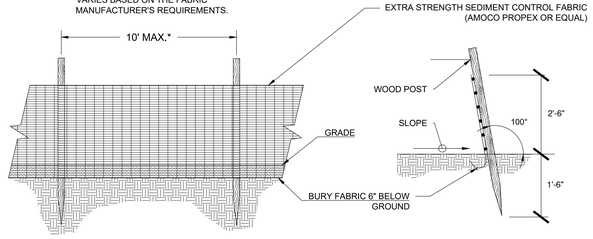
HAY BALE BARRIER (HB)

N.T.S.



PLAN VIEW

***NOTE:** POST SPACING AND EMBEDMENT VARIES BASED ON THE FABRIC MANUFACTURER'S REQUIREMENTS.

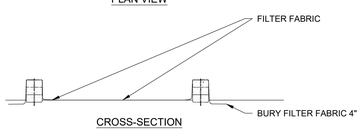


ELEVATION

SECTION

SILT FENCE BARRIER (SF)

N.T.S.



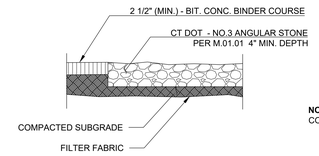
CROSS-SECTION

NOTES:

1. CONSTRUCT WASHOUT AREA LARGE ENOUGH TO ENSURE MATERIALS WILL BE CONTAINED WHERE WASTE CONCRETE CAN SOLIDIFY IN PLACE AND EXCESS WATER CAN SAFELY EVAPORATE.
2. WASHOUT AREA SHALL BE LARGE ENOUGH TO RETAIN ALL LIQUID AND WASTE CONCRETE MATERIALS FROM WASHOUT OPERATION
3. WEEKLY INSPECTIONS OF WASHOUT AREAS SHALL BE CONDUCTED TO ASSESS THE HOLDING CAPACITY AND FUNCTIONALITY OF THE WASHOUT AREA.

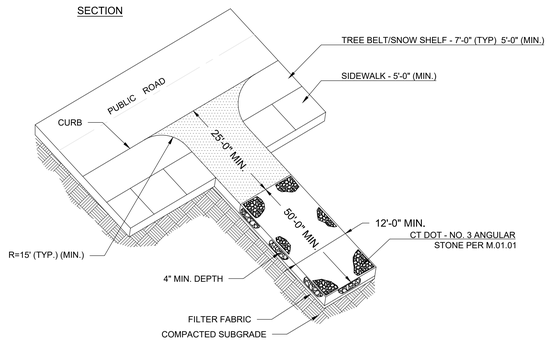
TEMPORARY CONCRETE WASHOUT AREA (CWA)

N.T.S.



NOTE: LOCATION TO BE DETERMINED IN THE FIELD BY THE CONSTRUCTION ADMINISTRATOR

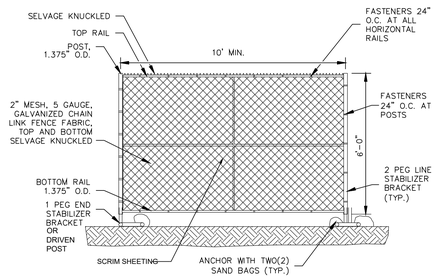
SECTION



PLAN

CONSTRUCTION ENTRANCE (CE)

N.T.S.

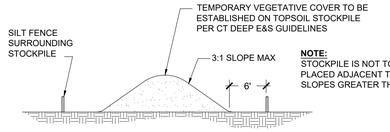


NOTES:

1. EACH STABILIZER BRACKET SHALL BE SECURED WITH TWO (2) SANDBAGS, MIN. 50 POUNDS EACH.
2. PANELIZED CONSTRUCTION FENCE SHALL ONLY BE USED AT CONSTRUCTION SITE ENTRANCE AREAS, AREAS REQUIRING FREQUENT RELOCATION OF FENCING, OR WHERE PAVED AREAS PROHIBIT INSTALLATION OF DRIVEN FENCE POSTS.

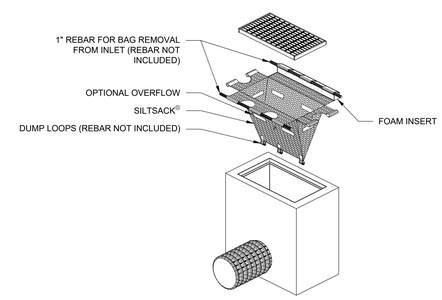
CONSTRUCTION FENCE

N.T.S.



TEMPORARY STOCKPILE (STK)

N.T.S.



'SILTSACK' SEDIMENT CONTROL DEVICE, TERRAFIX GEOSYNTHETICS INC. TORONTO, ONTARIO, CA WWW.TERRAFIXGEO.COM

SILT SACK DETAIL (SS)

N.T.S.

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REVISIONS

NO.	DATE	DESCRIPTION
1	10-25-2024	P1 - BULLETIN #1
2	11-01-2024	P1 - BULLETIN #2
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6	11-24-2025	PR-24 - Utility Area
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SOIL EROSION AND SEDIMENT CONTROL NOTES & DETAILS

DATE: 09/23/2024
SCALE AS NOTED
PROJ. #: 70757.01
DRAWN: RLC
CHECKED: WGW

SHEET NO.

C1.1

SIGN LEGEND

31-0552*	31-0662P 31-0448	31-1119	31-0662P	
A	B	C	D	E

NOTE: ALL SIGNS SHALL BE IN ACCORDANCE WITH THE CTDOT SIGN CATALOG, OR AS SHOWN. *SIGN MOUNTED ON BREAKAWAY POST

MATERIALS LEGEND

- EXPANSION JOINT
- EXPANSION JOINT AT FROST WALL
- EXPANSION JOINT AT DEPRESSED SLAB
- CONTRACTION JOINT
- PAINTED ACCESSIBLE SYMBOL
- PAINTED CROSSWALK
- ACCESSIBLE RAMP TYPE A — 4 / C5.1
- ACCESSIBLE RAMP TYPE B — 3 / C5.1
- ACCESSIBLE RAMP TYPE C — 4 / C5.1
- ACCESSIBLE RAMP TYPE D — 2 / C5.1
- STAIR OR RAMP PROFILE
- TRAFFIC SIGN (SEE TRAFFIC SIGNAGE SCHEDULE) — 13 / C5.0
- CONCRETE CURB — 10 / C5.0
- FLUSH INTEGRAL CONCRETE CURB — 8 / C5.0
- INTEGRAL CONCRETE CURB — 9 / C5.0
- MOUNTABLE CONCRETE CURB — 12 / C5.0
- FROST PAD — 4 / C5.0
- RECESSED FROST PAD — 5 / C5.0
- BITUMINOUS CONCRETE (LIGHT DUTY) — 1 / C5.0
- BITUMINOUS REPLACEMENT (HEAVY DUTY) — 2 / C5.0
- CONCRETE PAVEMENT (LIGHT DUTY) — 3 / C5.0
- CONCRETE PAVEMENT (HEAVY DUTY) — 6 / C5.0
- BRICK PAVERS — 14 / C5.0
- STONE MULCH (CRUSHED) — 7 / C5.0
- WOOD FENCE — 10 / C5.1
- DUAL ELECTRIC VEHICLE CHARGING STATION
- PARKING STALL COUNT — 26

MATERIALS NOTES

1. MATERIALS AND CONSTRUCTION PROCEDURES SHALL COMPLY WITH CT DOT FORM 818, TOWN OF MANCHESTER LAND USE REGULATIONS AND THE PROJECT MANUAL.
2. ALL LOCATIONS WHERE EXISTING CURBING, BITUMINOUS CONCRETE ROADWAY OR CONCRETE ROADWAY OR CONCRETE SIDEWALK ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO PROVIDE A CLEAN, SMOOTH EDGE. TACK COAT EXPOSED EDGES OF EXISTING CONCRETE PRIOR TO PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT.
3. MANUFACTURED ITEMS SHALL BE INSTALLED, CONNECTED AND CLEANED ACCORDING TO THE MANUFACTURERS DIRECTIONS.
4. EXPANSION AND SCORE JOINTS FOR NEW CONCRETE WALKS SHALL BLEND TO MATCH EXISTING PATTERNS. CONTRACTOR TO ARRANGE TIMELY ON-SITE CONFERENCES WITH LANDSCAPE ARCHITECT TO APPROVE LAYOUT OF JOINT PATTERNS.
5. PROVIDE EXPANSION JOINTS FOR NEW CONCRETE PAVING AT ALL CURBS, TREE GRATES, BUILDING WALLS, SITE WALLS, STAIRS, LIGHT POLE BASES, MANHOLES, GRATES/VAULTS, EXISTING CONCRETE PAVING, STOP LIGHTS, FIRE HYDRANTS AND ALL OTHER FIXED MATERIALS. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 20 FEET.
6. ALL DAMAGED OR BROKEN SECTIONS OF EXISTING STREET SIDEWALK AND CURBING WITHIN THE TOWN / CITY / SOVEREIGN NATION RIGHT OF WAY SHALL BE REPLACED.
7. ACCESSIBLE EV CHARGING SPACES MUST HAVE A SINGLE UNIT CHARGER TO NOT INTERFERE WITH ACCESSIBLE ROUTE. STANDARD EV CHARGING SPACES MAY SPLIT A DUAL CHARGER BETWEEN THE TWO SPACES

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MATERIALS PLAN

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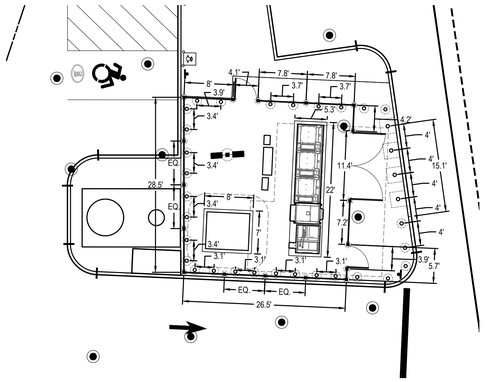
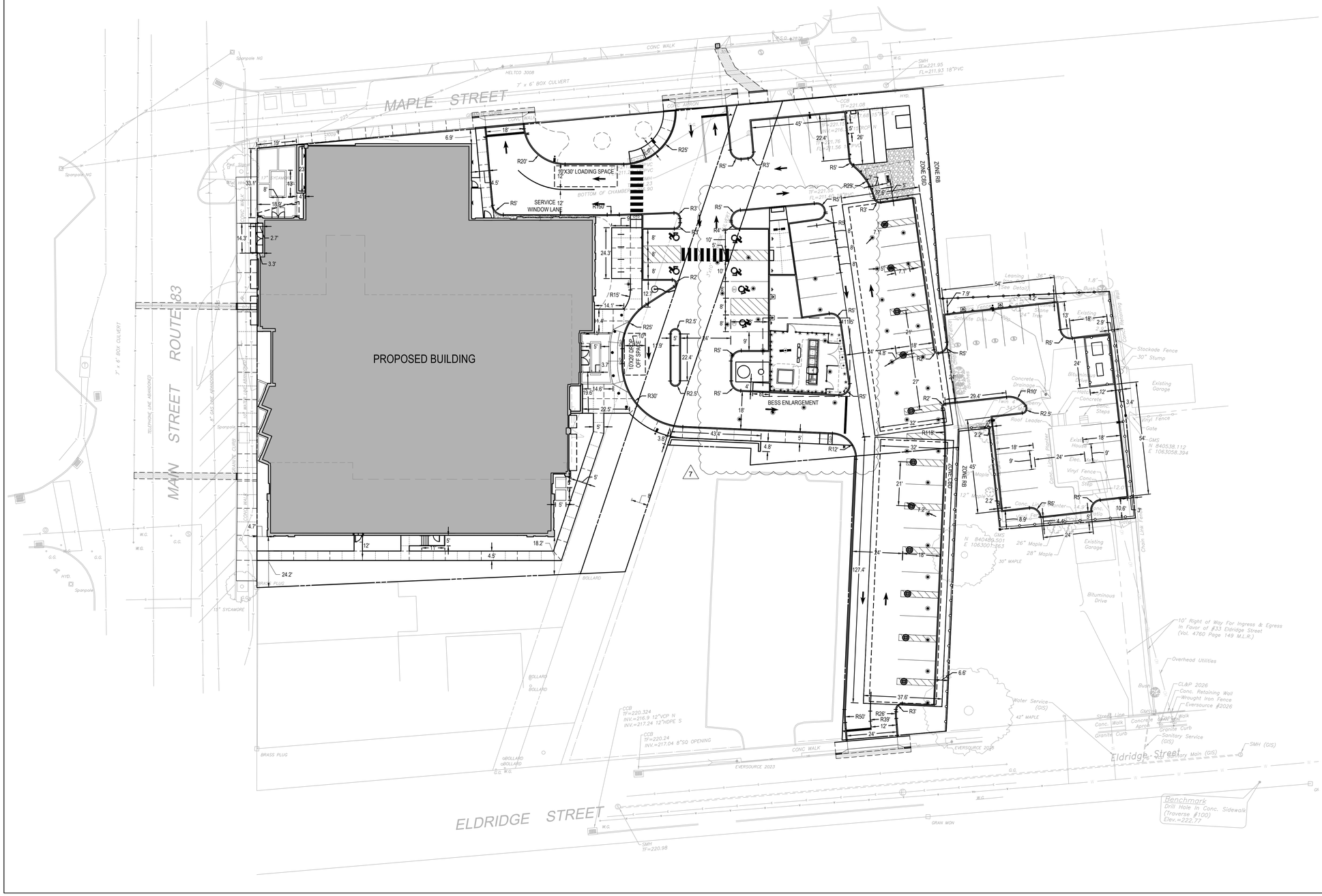
PROJ. #: 70757.01	C2.0
DRAWN: AMW	
CHECKED: WGW	

SCALE: 1" = 20'



BESS ENLARGEMENT



LAYOUT NOTES

1. NEW PAVEMENT TO MEET LINE & GRADE OF EXISTING PAVEMENTS.
2. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED.
3. FIELD ADJUSTMENTS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE AND APPROPRIATE MUNICIPAL OFFICIALS PRIOR TO CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE VERTICAL AND HORIZONTAL POSITION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
5. A DIGITAL CAD FILE CAN BE PROVIDED TO THE CONTRACTOR FOR THE LAYOUT OF SITE IMPROVEMENTS IN THE FIELD.

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LAYOUT PLAN

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PROJ. #: 70757.01
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SHEET NO.

C2.1

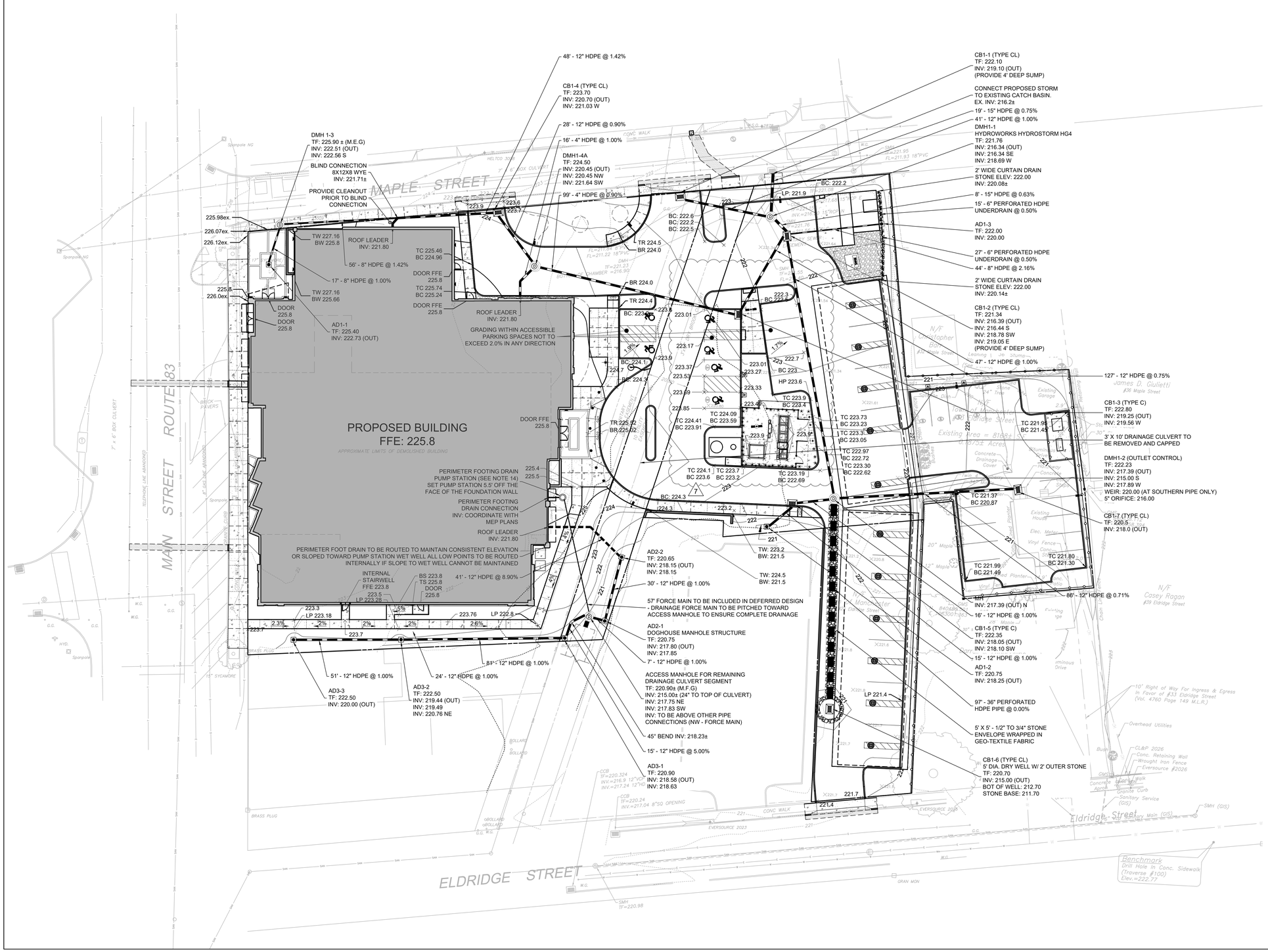
LEGEND

ITEM	EXISTING	PROPOSED
MINOR CONTOUR	129	129
MAJOR CONTOUR	130	130
SPOT GRADE		,130.5
STORM PIPE		
STORM MANHOLE		
CATCH BASIN		
YARD DRAIN		

GRADING & DRAINAGE NOTES

1. EXISTING AND PROPOSED ELEVATIONS ARE IN REFERENCE TO NAVD88 DATUM.
2. CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
3. THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.
4. ALL DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), UNLESS OTHERWISE INDICATED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE DRAINAGE MANHOLE SIZING TO ACCEPT THE PROPOSED PIPE CONNECTIONS.
6. STORM DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF MANCHESTER STANDARDS.
7. AT THE CONCLUSION OF THE WORK, CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT MATERIAL FROM ALL PORTIONS OF THE STORM DRAINAGE SYSTEM. GRADE TRANSITION BETWEEN TOPOGRAPHIC LINES AND SPOT GRADES SHALL BE UNIFORM UNLESS OTHERWISE INDICATED.
8. A CERTIFIED AS-BUILT OF THE DRAINAGE SYSTEM SHALL BE SUBMITTED TO THE OWNER AT THE CONCLUSION OF CONSTRUCTION AND PRIOR TO FINAL CLOSEOUT.
9. MAXIMUM LANDSCAPE SLOPES SHALL BE 3(H):1(V).
10. SLOPES ALONG ACCESSIBLE ROUTES SHALL BE LESS THAN 1:20 (5%) AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/4 INCH.
11. SLOPES ALONG ACCESSIBLE RAMPS SHALL NOT EXCEED 1:12 (8.3%) AND THE CROSS SLOPE SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVEL SHALL NOT BE GREATER THAN 1/4 INCH.
12. LANDINGS SHALL NOT HAVE A SLOPE GREATER THAN 1:50 (2%) IN ANY DIRECTION.
13. SLOPES WITHIN ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 1:50 (2%) IN ANY DIRECTION.
14. ABBREVIATIONS:
    - YARD DRAIN
    - INVERT ELEVATION
    - CURBLESS CATCH BASIN
    - TOP OF RIM ELEVATION
    - CURBED CATCH BASIN
    - TOP OF GRATE ELEVATION
    - MANHOLE
    - INVERT ELEVATION
    - WATER QUALITY UNIT
    - OUTLET CONTROL STRUCTURE
    - FINISHED FLOOR ELEVATION
    - BOTTOM OF CURB ELEVATION
    - HIGH POINT ELEVATION
    - LOW POINT ELEVATION
15. PUMP STATION TO BE DEFERRED DESIGN SUBMITTED FOR ENGINEER REVIEW AS A SHOP DRAWING. PUMP STATION TO BE DESIGNED BY UNITED CONCRETE PRODUCTS OR SIMILAR VENDOR. PACKAGE SHALL INCLUDE: WET WELL, VALVES, FLOATS, CONTROLS, REMOTE ACCESS, ETC.

    DESIGN PARAMETERS:
    - TDH: COORDINATE WITH MEP PLANS
    - WET WELL SHALL HOLD MINIMUM 200 GALLONS BELOW THE INLET INVERT
    - FORCE MAIN WILL BE APPROXIMATELY 57' AND WILL BE SIZE AS APPROPRIATE FOR THE PUMPS
    - SYSTEM SHALL INCLUDE DUPLEX PUMPS ACCESSIBLE VIA A RAIL SYSTEM
    - THE PUMP STATION SHALL HAVE A FRAME AND COVER THAT IS FLUSH WITH FINISHED GRADE



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GRADING AND DRAINAGE PLAN

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LEGEND

ITEM	EXISTING	PROPOSED
SANITARY PIPE	SAN	SAN
CLEANOUT		CO
SANITARY MANHOLE	S	S
DOMESTIC WATER LINE	W	W
FIRE PROTECTION LINE	FP	FP
GATE VALVE		
HYDRANT		
ELECTRIC LINE	E	E
TELECOM LINE	T	T
GAS LINE	G	G

UTILITY NOTES

1. WATER
   - 1.1. ALL WATER WORK TO COMPLY WITH THE MANCHESTER WATER AND SEWER DEPARTMENT STANDARDS AND SPECIFICATIONS.
   - 1.2. DOMESTIC WATER MAINS ARE TO BE CLASS 52 DUCTILE IRON PIPE WITH MINIMUM 4.5 FT OF COVER UNLESS OTHERWISE NOTED.
   - 1.3. FIRE PROTECTION MAINS ARE TO CLASS 54 DUCTILE IRON PIPE WITH MINIMUM 4.5 FT OF COVER UNLESS OTHERWISE NOTED.
   - 1.4. WATER SERVICES ARE TO BE A MIN. 10 FT HORIZONTALLY AND 18" VERTICALLY FROM ANY SANITARY PIPING OR STRUCTURES.
   - 1.5. LOCATION OF WATER SERVICES AT THE BUILDING TO BE COORDINATED WITH MECHANICAL DRAWINGS.
   - 1.6. ALTHOUGH NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR THE INSTALLATION OF ALL JOINTS, COUPLINGS, RESTRAINTS, BENDS, ANGLES, AND OTHER APPURTENANCES TO ACHIEVE A COMPLETE, FUNCTIONAL WATER SUPPLY SYSTEM.
2. SANITARY
   - 2.1. ALL SANITARY WORK TO COMPLY WITH THE MANCHESTER WATER AND SEWER DEPARTMENT STANDARDS AND SPECIFICATIONS.
   - 2.2. SANITARY LINES TO BE SDR-35 PIPE WITH A MINIMUM 3.5 FT OF COVER UNLESS OTHERWISE NOTED.
   - 2.3. ALTHOUGH NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR THE INSTALLATION OF ALL JOINTS, BENDS, ANGLES, AND OTHER APPURTENANCES TO ACHIEVE A COMPLETE, FUNCTIONAL SANITARY SYSTEM.
3. ELECTRIC, GAS, AND TELECOMMUNICATIONS
   - 3.1. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE FACILITY PROVIDER.
   - 3.2. WARNING TAPE AND TRACER WIRE SHALL BE INSTALLED 12-INCHES BELOW GRADE.
   - 3.3. SEAL ALL CONDUIT ENDS WITH BLANK DUCT PLUGS. SECURE PULL ROPE TO DUCT PLUG.
   - 3.4. FINAL DESIGN TO BE COORDINATED WITH UTILITY OWNER.
   - 3.5. METER LOCATIONS TO BE COORDINATED WITH MECHANICAL DRAWINGS.

TOWN OF MANCHESTER WATER AND SANITARY SEWER CONSTRUCTION NOTES

1. A PRECONSTRUCTION MEETING WITH TOWN STAFF IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES DEPICTED ON THESE DRAWINGS ARE FROM THE BEST AVAILABLE SOURCES. SUCH INFORMATION IS FURNISHED ONLY FOR THE INFORMATION OF THE CONTRACTOR AND IS NOT GUARANTEED.
4. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
5. THE LOCATIONS OF ALL PROPOSED UNDERGROUND UTILITIES (I.E. GAS, TELEPHONE, CABLE TV, ELECTRIC, ETC.) SHALL BE APPROVED BY THE TOWN PRIOR TO CONSTRUCTION.
6. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST REVISION OF THE TOWN OF MANCHESTER "PUBLIC IMPROVEMENT STANDARDS".
7. AT ALL UTILITY CROSSINGS A MINIMUM 18" VERTICAL SEPARATION DISTANCE SHALL BE PROVIDED FROM WATER OR SEWER UTILITIES UNLESS INDICATED OTHERWISE ON THE PLANS OR AS APPROVED BY THE TOWN. A CONCRETE CRADLE SHALL BE UTILIZED IF A MINIMUM VERTICAL SEPARATION DISTANCE OF LESS THAN 12" IS ALLOWED BY THE TOWN. A MINIMUM HORIZONTAL SEPARATION DISTANCE OF 10' SHALL BE PROVIDED BETWEEN WATER AND SEWER UTILITIES. PROVIDE 5' MINIMUM SEPARATION DISTANCE BETWEEN WATER OR SEWER UTILITIES AND GAS MAINS. PROVIDE 5' MINIMUM SEPARATION DISTANCE BETWEEN WATER OR SEWER UTILITIES AND STORM DRAIN LINES. PROVIDE 2' MINIMUM SEPARATION DISTANCE BETWEEN WATER MAINS AND CATCH BASINS.
8. THRUST RESTRAINT FOR ALL MECHANICAL JOINTS AT VALVES AND FITTINGS SHALL BE PROVIDED BY MEANS OF DUCTILE IRON RESTRAINER GLANDS. WEDGE-ACTION JOINT RESTRAINERS OR GASKET-TYPE JOINT RESTRAINT SHALL BE USED TO RESTRAIN ALL DUCTILE IRON PIPE JOINTS FOR A DISTANCE OF AT LEAST 27 FEET ON EACH SIDE OF ALL VALVES OR FITTINGS. NO MORE THAN ONE PIPE JOINT SHALL BE ALLOWED WITHIN THAT 27 FEET OF PIPE.
9. ALL VALVE BOXES AND CURB BOXES SHALL BE ADJUSTED TO THE FINAL GRADES. ALL CURB BOXES SHALL BE LOCATED IN GRASSED AREAS AT THE STREET LINE FRONTING THE PROPERTY UNLESS INDICATED OTHERWISE ON THE PLANS.
10. ALL VALVES AND HYDRANTS SHALL BE RIGHT-OPENING (CLOCKWISE). THE CONTRACTOR SHALL VERIFY THE DIRECTION OF OPENING PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. ALL MAIN LINE AND AUXILIARY VALVES (4" TO AND INCLUDING 12") SHALL BE RESILIENT WEDGE GATE VALVES.
11. ALL WATER MAINS SHALL HAVE 4 ½ FEET OF COVER UNLESS OTHERWISE INDICATED ON THE PLANS. COVER LESS THAN OR IN EXCESS OF 4 ½ FEET SHALL BE ALLOWED ONLY AS INDICATED ON THE PLANS OR APPROVED BY THE TOWN. WATER MAINS HAVING COVER LESS THAN 4 ½ FEET SHALL BE INSULATED.
12. ALL EXISTING WATER OR SANITARY SEWER SERVICES THAT WILL NOT BE REUSED AS PART OF THE FUTURE DEVELOPMENT SHALL BE ABANDONED AT THE MAIN IN ACCORDANCE WITH PROCEDURES SET FORTH BY THE TOWN.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY HANDLING OF SANITARY SEWAGE FLOWS DURING CONSTRUCTION. METHODS OF HANDLING SEWAGE FLOWS SHALL BE APPROVED BY THE TOWN.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY THRUST RESTRAINT THAT MAY BE REQUIRED.
15. ALL EXISTING HYDRANTS TO BE REMOVED OR REPLACED SHALL BE SALVAGED WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE TOWN. ALL OTHER MATERIALS WHICH ARE REMOVED FROM THE ROADWAY SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND DISPOSED OF PROPERLY, UNLESS INDICATED OTHERWISE ON THE PLANS.
16. WHEN DOMESTIC OR FIRE WATER SERVICES GREATER THAN OR EQUAL TO 4" IN DIAMETER ARE PROPOSED TO BE CONNECTED TO THE WATER MAIN USING A TAPPING SLEEVE AND VALVE A WET TAP CONTRACTOR PREAPPROVED BY THE TOWN SHALL BE USED.
17. A CONSTRUCTION SEQUENCE AND PIPE LAYING SCHEDULE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITY. DEVIATIONS FROM SAID SCHEDULE OR CONSTRUCTION SEQUENCE SHALL BE APPROVED BY THE ENGINEER.
18. RECORD DRAWINGS OF ALL PUBLIC WATER/SEWER FACILITIES SHALL BE SUBMITTED TO THE TOWN UPON COMPLETION OF THE WORK OR AT SUCH STAGES OF THE CONSTRUCTION AS REQUIRED BY THE ENGINEER. DRAWINGS SHALL BE IN A FORM ACCEPTABLE TO THE DEPARTMENT AND SHALL BE APPROVED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING ALL INFORMATION NECESSARY TO GENERATE DRAWINGS AND PROVIDING THE ACTUAL DRAWINGS. A REDLINED PROGRESS SET OF DRAWINGS SHALL BE MAINTAINED DAILY AND BE AVAILABLE TO THE ENGINEER AT ALL TIMES.
19. ALL EXISTING WATER MAINS PROJECTING INTO THE TRENCH WHICH ARE INDICATED ON THE PLANS TO BE ABANDONED SHALL BE PROPERLY REMOVED FROM THE ROADWAY. EXISTING WATER MAINS TO BE ABANDONED THAT ARE LOCATED OUTSIDE OF THE PROPOSED WATER MAIN TRENCH LIMITS SHALL BE ABANDONED IN PLACE.

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SITE UTILITY PLAN

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PROJ. #: 70757.01
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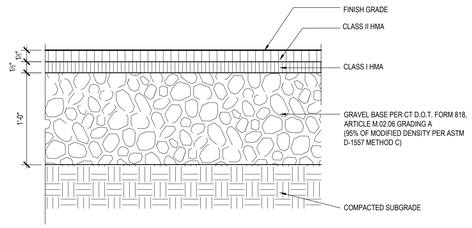
CHECKED: WGW

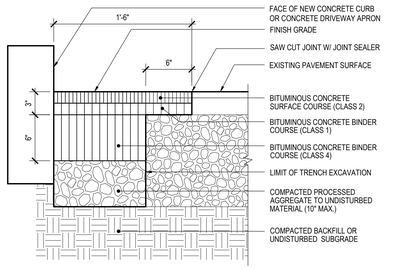
SHEET NO.

C4.0

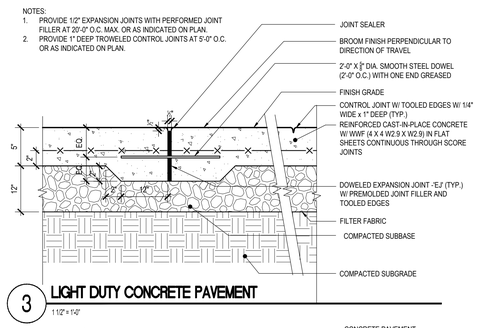
SCALE: 1" = 20'



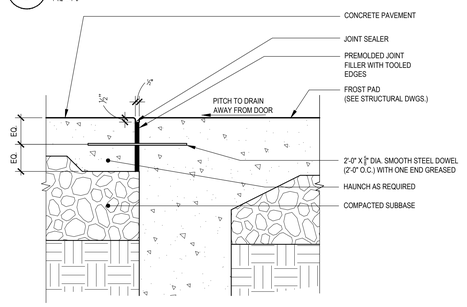
1 LIGHT DUTY BITUMINOUS CONCRETE PAVEMENT
1 1/2" = 1'-0"



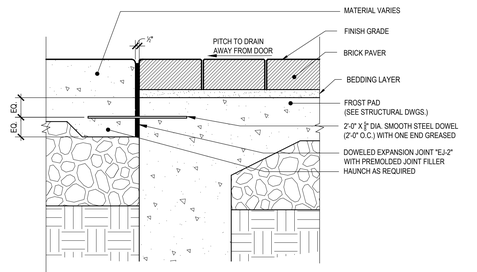
2 BITUMINOUS CONCRETE PAVEMENT REPLACEMENT
1 1/2" = 1'-0"



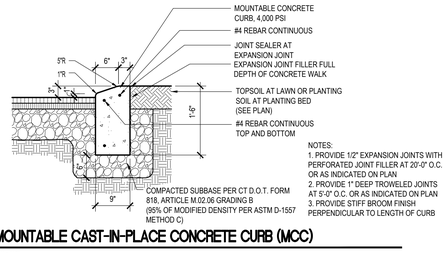
3 LIGHT DUTY CONCRETE PAVEMENT
1 1/2" = 1'-0"



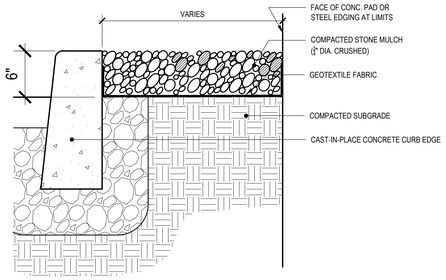
4 DOWELED EXPANSION JOINT AT FROST PAD (EJ-1)
1 1/2" = 1'-0"



DOWELED EXPANSION JOINT AT DEPRESSED FROST PAD (EJ-2)
1 1/2" = 1'-0"



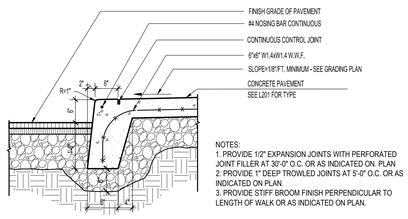
6 HEAVY DUTY CONCRETE PAVEMENT
1 1/2" = 1'-0"



7 STONE MULCH AT UTILITIES
3/4" = 1'-0"

NOTES:
1. PROVIDE 1/2" EXPANSION JOINTS WITH PERFORATED JOINT FILLER AT 30'-0" O.C. OR AS INDICATED ON. PLAN
2. PROVIDE 1" DEEP TROWLED JOINTS AT 5'-0" O.C. OR AS INDICATED ON PLAN.
3. PROVIDE STIFF BROOM FINISH PERPENDICULAR TO LENGTH OF WALK OR AS INDICATED ON PLAN.

8 FLUSH INTREGRAL CAST-IN-PLACE CONCRETE CURB (FICC)
3/4" = 1'-0"

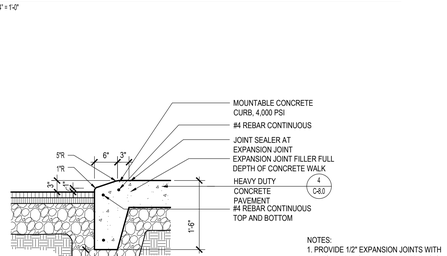


NOTES:
1. PROVIDE 1/2" EXPANSION JOINTS WITH PERFORATED JOINT FILLER AT 30'-0" O.C. OR AS INDICATED ON. PLAN
2. PROVIDE 1" DEEP TROWLED JOINTS AT 5'-0" O.C. OR AS INDICATED ON PLAN.
3. PROVIDE STIFF BROOM FINISH PERPENDICULAR TO LENGTH OF WALK OR AS INDICATED ON PLAN.

9 INTEGRAL CAST-IN-PLACE CONCRETE CURB (ICC)
3/4" = 1'-0"

NOTES:
1. PROVIDE 1/2" EXPANSION JOINTS WITH PERFORATED JOINT FILLER AT 30'-0" O.C. OR AS INDICATED ON. PLAN
2. PROVIDE 1" DEEP TROWLED JOINTS AT 5'-0" O.C. OR AS INDICATED ON PLAN.
3. PROVIDE STIFF BROOM FINISH PERPENDICULAR TO LENGTH OF WALK OR AS INDICATED ON PLAN.

10 CAST-IN-PLACE CONCRETE CURB (CC)
3/4" = 1'-0"

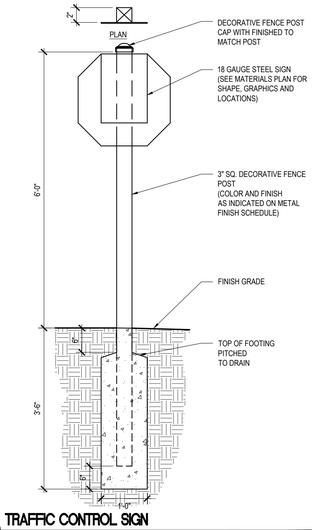


NOTES:
1. PROVIDE 1/2" EXPANSION JOINTS WITH PERFORATED JOINT FILLER AT 20'-0" O.C. OR AS INDICATED ON PLAN
2. PROVIDE 1" DEEP TROWLED JOINTS AT 5'-0" O.C. OR AS INDICATED ON PLAN
3. PROVIDE STIFF BROOM FINISH PERPENDICULAR TO LENGTH OF CURB

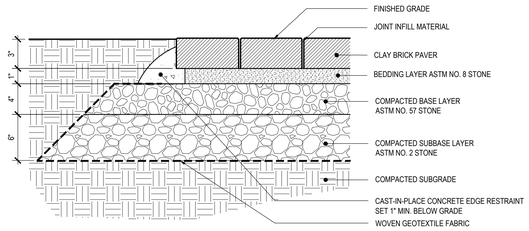
11 MOUNTABLE CAST-IN-PLACE CONCRETE CURB (MCC)
3/4" = 1'-0"

NOTES:
1. PROVIDE 1/2" EXPANSION JOINTS WITH PERFORATED JOINT FILLER AT 20'-0" O.C. OR AS INDICATED ON. PLAN
2. PROVIDE 1" DEEP TROWLED JOINTS AT 5'-0" O.C. OR AS INDICATED ON PLAN.
3. PROVIDE STIFF BROOM FINISH PERPENDICULAR TO LENGTH OF CURB.

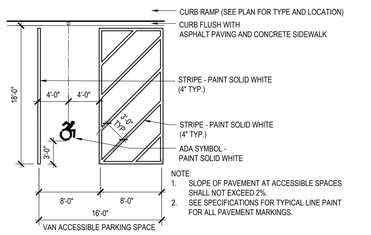
12 INTEGRAL MOUNTABLE CAST-IN-PLACE CONCRETE CURB (IMCC)
3/4" = 1'-0"



13 TRAFFIC CONTROL SIGN
3/4" = 1'-0"

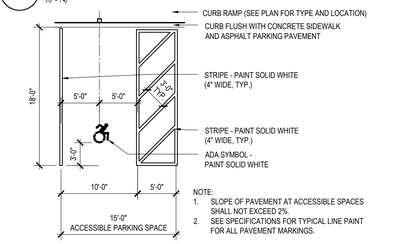


14 BRICK PAVERS ON AGGREGATE BASE
1 1/2" = 1'-0"



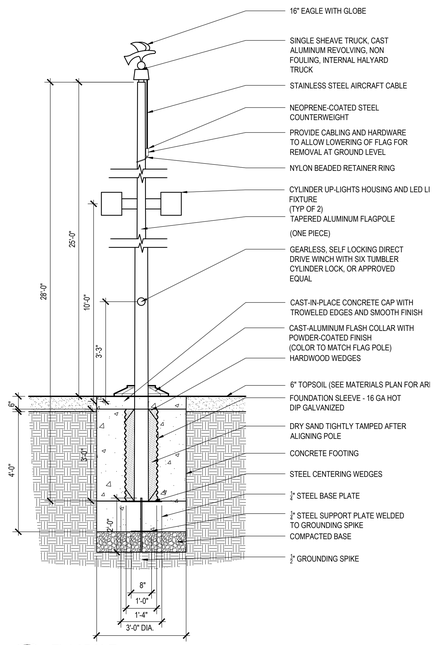
NOTE:
1. SLOPE OF PAVEMENT AT ACCESSIBLE SPACES SHALL NOT EXCEED 2%.
2. SEE SPECIFICATIONS FOR TYPICAL LINE PAINT FOR ALL PAVEMENT MARKINGS.

15 VAN ACCESSIBLE PARKING SPACE PLAN
1/8" = 1'-0"



NOTE:
1. SLOPE OF PAVEMENT AT ACCESSIBLE SPACES SHALL NOT EXCEED 2%.
2. SEE SPECIFICATIONS FOR TYPICAL LINE PAINT FOR ALL PAVEMENT MARKINGS.

16 ACCESSIBLE PARKING SPACE PLAN
1/8" = 1'-0"



17 FLAGPOLE
1/2" = 1'-0"

18 STEEL PIPE BOLLARD
3/4" = 1'-0"

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MANCHESTER PUBLIC LIBRARY

PHASE 1

1041 Main Street, Manchester, CT 06040

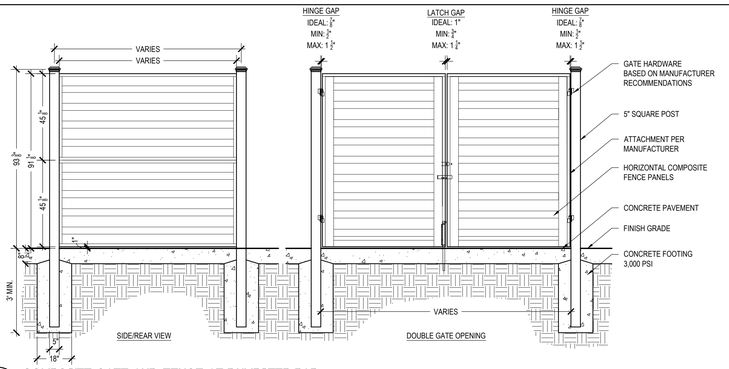
REVISIONS		
NO.	DATE	DESCRIPTION
1	10-25-2024	P1 - BULLETIN #1
2	11-01-2024	P1 - BULLETIN #2
3	03-13-2025	PR-001 Revised
4	09-15-2025	E&S Plan Submission
5	09-19-2025	PR-23 - Carport/Rear Lot
6	11-24-2025	PR-24 - Utility Area
7	04-28-2026	PR-36 - BESS Relocation

MANCHESTER LIBRARY

SITE DETAILS

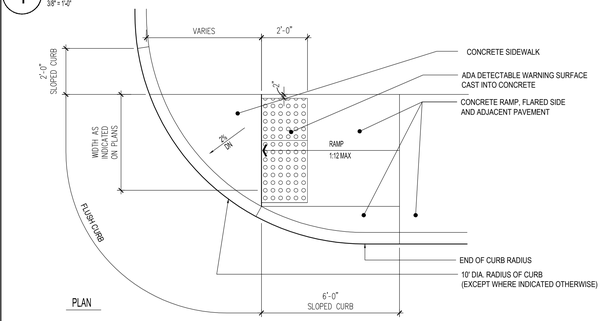
DATE: 09/23/2024
SCALE AS SHOWN
PROJ. #: 70757.01
DRAWN: AMW
CHECKED: WGW

SHEET NO.
C5.0



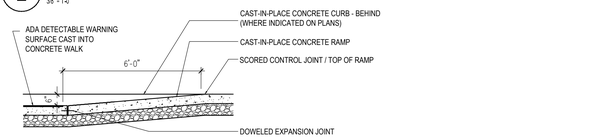
1 COMPOSITE GATE AND FENCE AT DUMPSTER PAD

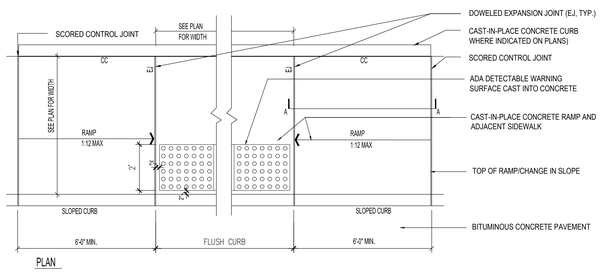
3/8" = 1'-0"



2 ACCESSIBLE CURB RAMP - TYPE D

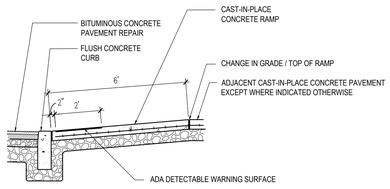
3/8" = 1'-0"

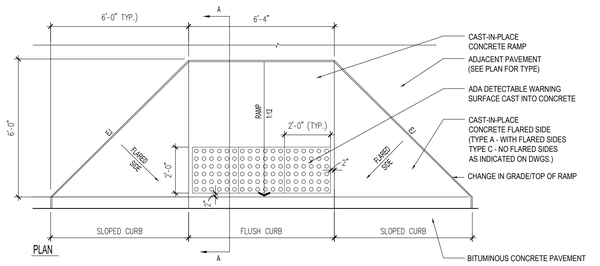




3 ACCESSIBLE CURB RAMP - TYPE B

3/8" = 1'-0"

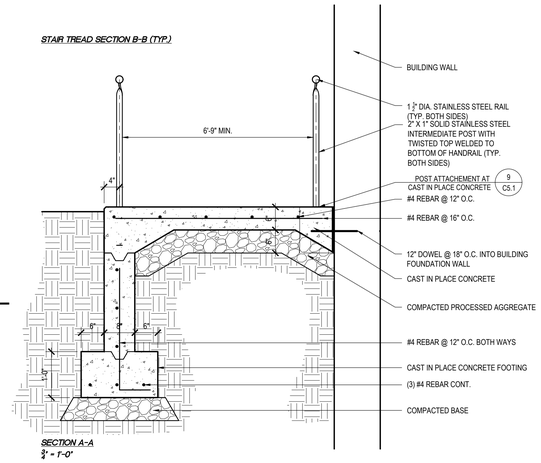




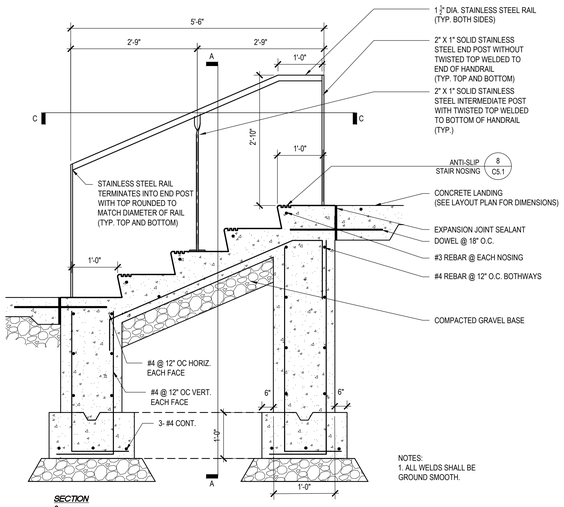
4 ACCESSIBLE CURB RAMP - TYPE A AND TYPE C

3/8" = 1'-0"

STAIR TREAD SECTION B-B (TYP.)



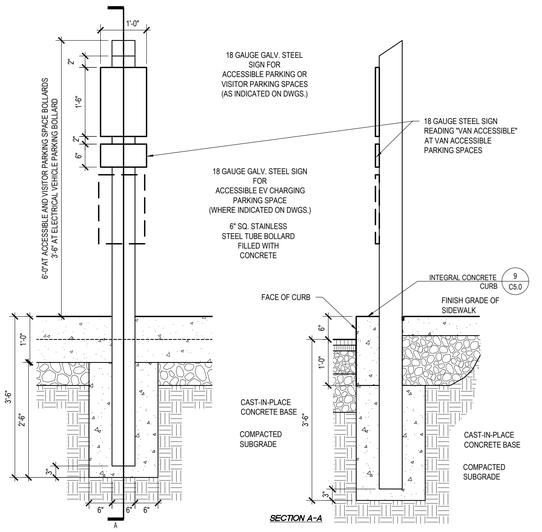
SECTION A-A
3/4" = 1'-0"



SECTION
3" = 1'-0"

5 CAST-IN-PLACE CONCRETE STAIR

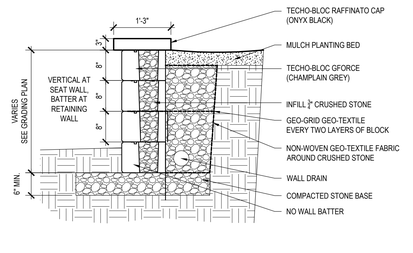
AS NOTED



SECTION A-A

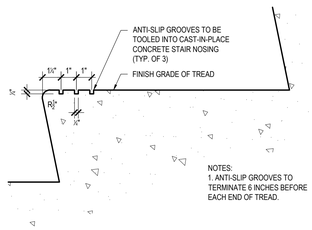
6 ACCESSIBLE PARKING SIGNAGE BOLLARD

3/4" = 1'-0"



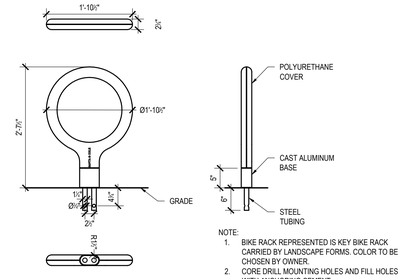
7 MODULAR BLOCK RETAINING WALL (TECHO-BLOC GFORCE)

3/4" = 1'-0"



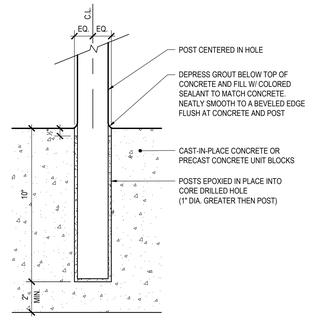
8 ANTI-SLIP NOSING AT CONCRETE STAIR TREAD

3" = 1'-0"



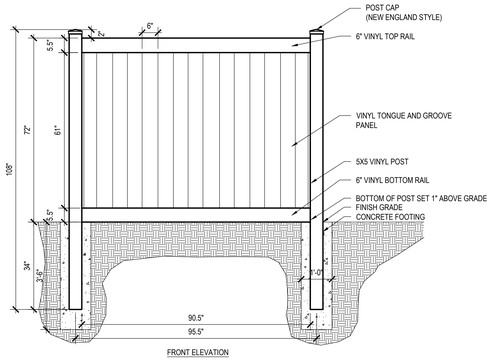
12 BIKE RACK

3/4" = 1'-0"



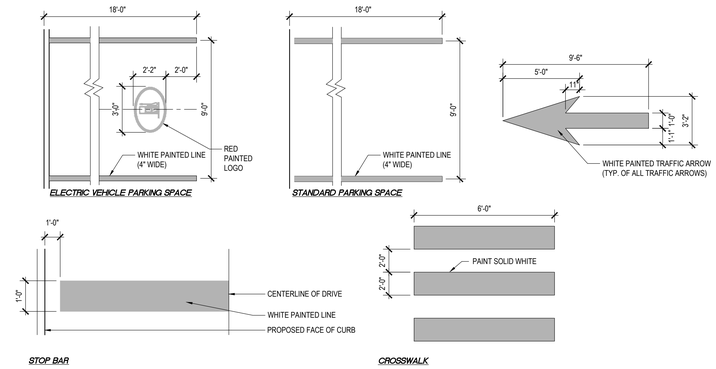
9 POST ATTACHMENT AT CONCRETE

3" = 1'-0"



10 VINYL SCREEN FENCE (6 FOOT HEIGHT)

1/2" = 1'-0"



11 PAINTED PAVEMENT MARKINGS

1/4" = 1'-0"

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SITE DETAILS

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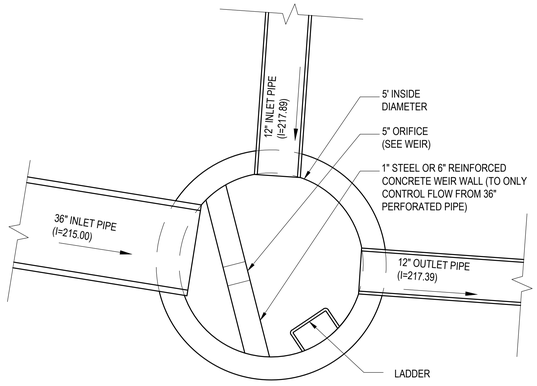
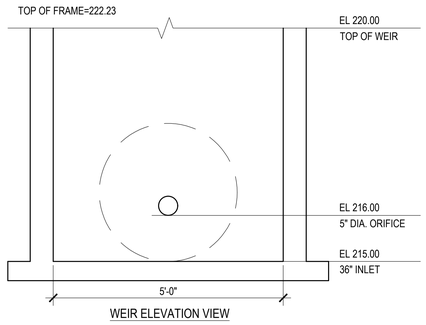
SHEET NO.

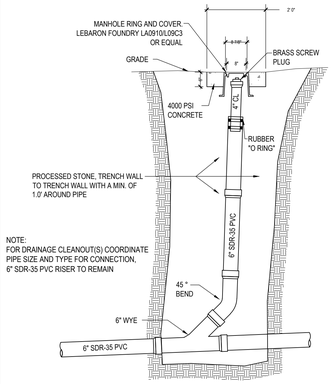
C5.1





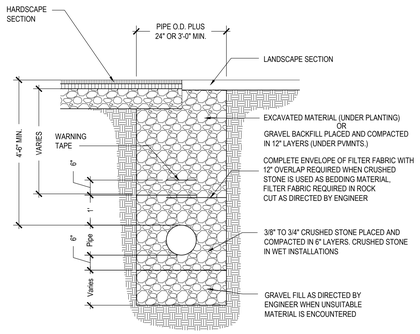
WEIR ELEVATION VIEW

1 OUTLET CONTROL STRUCTURE
3/4" = 1'-0"

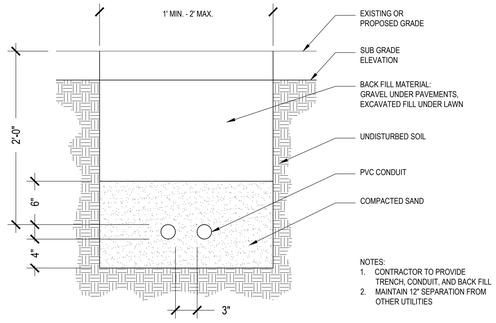


NOTE:
FOR DRAINAGE CLEANOUT(S) COORDINATE PIPE SIZE AND TYPE FOR CONNECTION, 6" SDR-35 PVC RISER TO REMAIN

2 CLEANOUT TO GRADE
N.T.S.

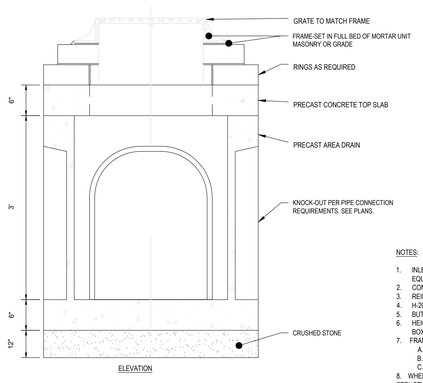


5 STORM TRENCH
N.T.S.

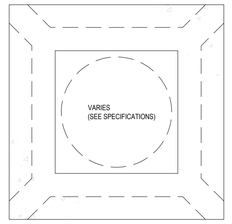


NOTES:
1. CONTRACTOR TO PROVIDE TRENCH, CONDUIT, AND BACK FILL
2. MAINTAIN 12" SEPARATION FROM OTHER UTILITIES

7 ELECTRIC CONDUIT TRENCH
N.T.S.



ELEVATION



PLAN VIEW (TOP SLAB)

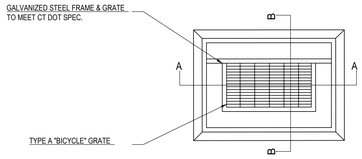
9 CONCRETE AREA DRAIN
N.T.S.

NOTES:

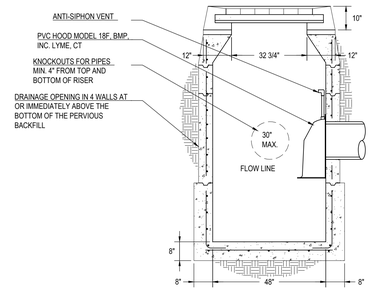
1. INLET SHALL BE 30"x30" CONCRETE AREA DRAIN, AS MANUFACTURED BY ARROW CONCRETE, OR ENGINEER APPROVED EQUAL.
2. CONCRETE STRENGTH SHALL BE 4,000 PSI AT 28 DAYS.
3. REINFORCING STEEL - ASTM 615 AND A82 OR A185 SPECIFICATIONS.
4. H-20 DESIGN LOADING PER AASHTO HS-20-44.
5. BUTYL RUBBER JOINT SEALANT - ASTM C990-91.
6. HEIGHT OF DRAIN BOX SHALL BE 3' (MODEL #ADBKO3) UNLESS DEPTH OF INVERT PIPE OUT REQUIRES THE USE OF 4' DRAIN BOX (MODEL #ADBKO4).
7. FRAME AND GRATE PAIR SHALL BE ONE OF THE FOLLOWING:
   A. STANDARD GRATE SHALL BE NEENAH INLET FRAME/GRATE R-2570 OR ENGINEER APPROVED EQUAL.
   B. ADA STANDARD GRATE SHALL BE NEENAH INLET FRAME/GRATE R-2568 OR ENGINEER APPROVED EQUAL.
   C. STANDARD BEEHIVE GRATE SHALL BE NEENAH INLET FRAME/BEEHIVE GRATE R-2564 OR ENGINEER APPROVED EQUAL.
8. WHERE NOT USED, THE KNOCKOUTS OF EACH AREA DRAIN SHALL BE FILLED WITH BLOCK / BRICK / MORTAR TO MAINTAIN STRUCTURAL INTEGRITY.

- SEE DRAWINGS FOR SPECIFIC LOCATIONS OF TYPE SELECTED.

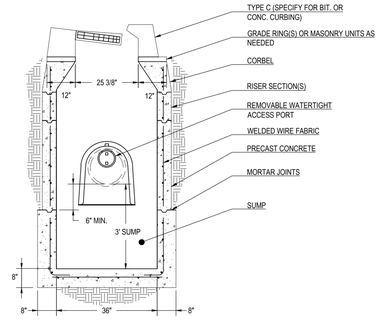
TOP - TYPE 'CL'



- DESIGN LOADING AASHTO H-20-44
- PRE-CAST CONCRETE, 4,000 PSI MIN.
- IN PAVEMENT AREAS THE NORMAL CROSS SLOPE OF THE GUTTER SHALL BE VARIED TO MATCH THE CROSS SLOPE OF THE GRATE.
- THE TOP OF THE SUMP UNIT SHALL BE A MINIMUM OF 6" BELOW THE LOWEST INVERT.

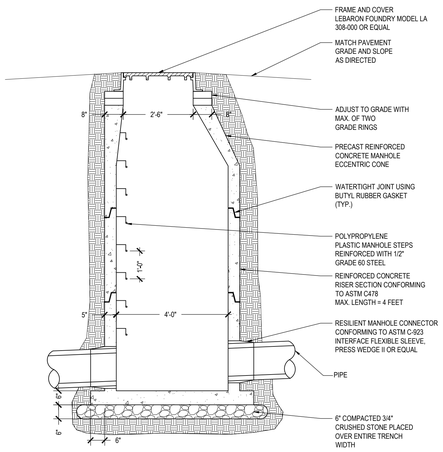


VIEW A-A

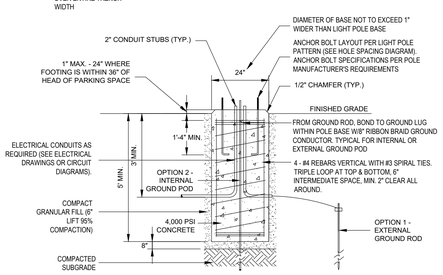


VIEW B-B

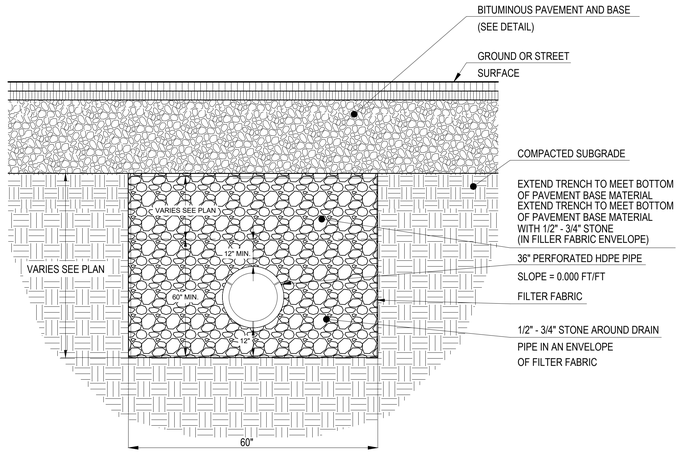
10 PRE-CAST CATCH BASIN
N.T.S.



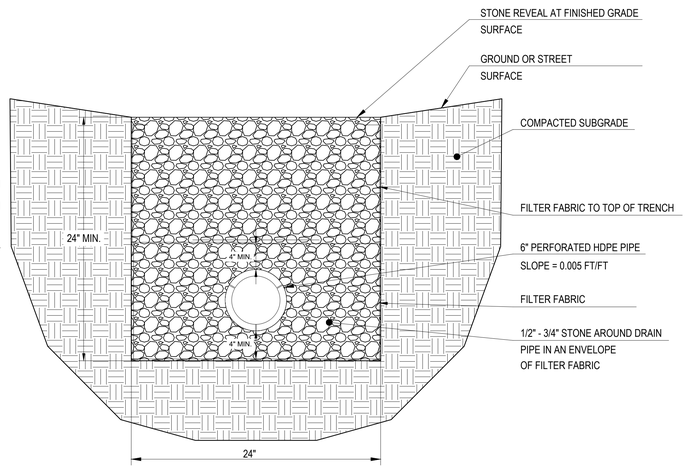
3 DRAIN MANHOLE
N.T.S.



4 LIGHT POLE BASE
N.T.S.



8 PERFORATED UNDERDRAIN
NOT TO SCALE



11 CURTAIN DRAIN
NOT TO SCALE

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120 Hebron Avenue, 2nd Floor
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MANCHESTER PUBLIC LIBRARY

PHASE 1

1041 Main Street, Manchester, CT 06040

REVISIONS		
NO.	DATE	DESCRIPTION
1	10-25-2024	P1 - BULLETIN #1
2	11-01-2024	P1 - BULLETIN #2
3	03-13-2025	PR-001 Revised
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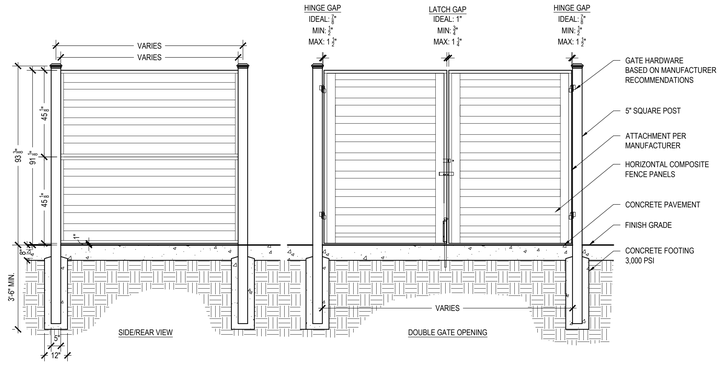
5	09-19-2025	PR-23 - Carport/Rear Lot
6	11-24-2025	PR-24 - Utility Area
7	04-28-2026	PR-36 - BESS Relocation

MANCHESTER LIBRARY

SITE DETAILS

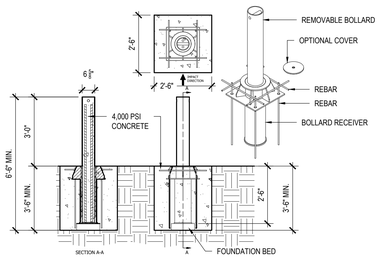
DATE: 09/23/2024	SHEET NO.
SCALE AS SHOWN	
PROJ. #: 70757.01	**C5.2**
DRAWN: AMW	
CHECKED: WGW	



NOTES:
1. SINGLE SWING GATES ARE TO BE EQUIPPED WITH PANIC BAR LATCHING MECHANISMS.
2. BASIS OF DESIGN: TREX HORIZIONS COMPOSITE FENCING.

1 BESS ENCLOSURE

3/8" = 1'-0"

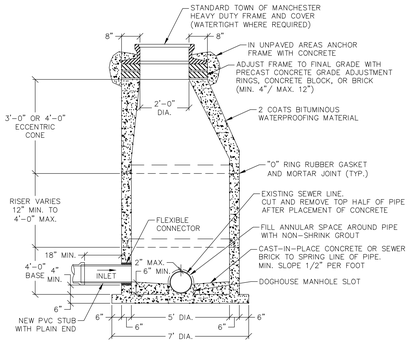


NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. VEHICLE RATED REMOVABLE BOLLARDS WILL NEED A MACHINE TO LIFT AND REMOVE.

2 REMOVABLE BOLLARD (CRASH RATED)

3/8" = 1'-0"

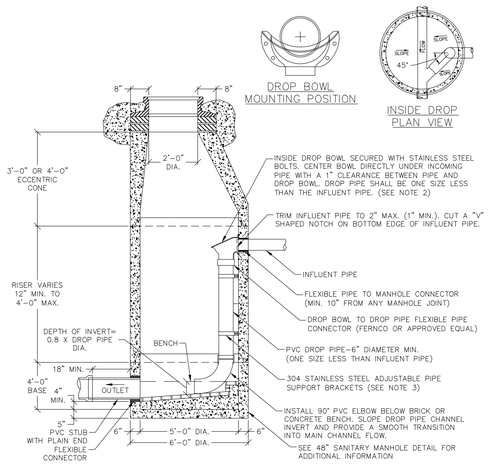
7



NOTES:
1. FOR ALL OTHER REQUIREMENTS SEE 60" INSIDE DROP SANITARY MANHOLE DETAIL.
2. DOGHOUSE MANHOLE SLOT SIZE BASED ON EXISTING PIPE SIZE. CONTRACTOR SHALL CONFIRM PIPE SIZE, ANGLES, AND CONFIGURATION PRIOR TO CONSTRUCTION.
3. EXISTING PIPE TO REMAIN IN SERVICE. CONSTRUCT NEW INVERT AND TRANSFER FLOW AS REQUIRED.

60" SANITARY DOGHOUSE MANHOLE

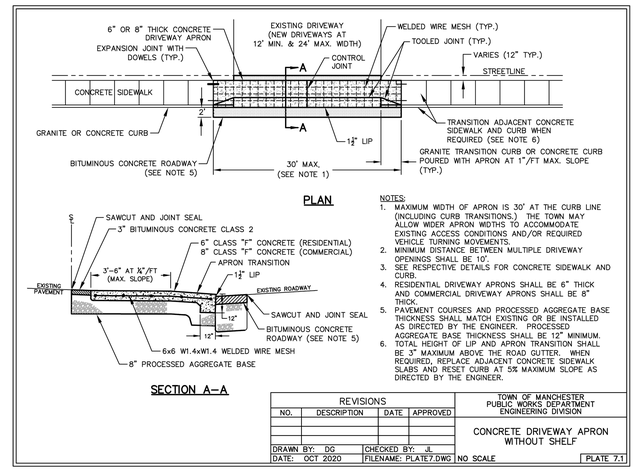
NOT TO SCALE



NOTES:
1. ONLY ONE INSIDE DROP CONNECTION PER MANHOLE WILL BE ALLOWED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
2. TO ALLOW FOR UNOBSTRUCTED ENTRY AND EXIT, THE DROP BOWL SHALL NOT EXTEND INTO THE AREA THAT IS DEFINED BY THE PROJECTION OF THE MANHOLE ENTRANCE VERTICALLY DOWN TO THE MANHOLE BOTTOM.
3. ADJUSTABLE PIPE SUPPORT BRACKETS SHALL BE 1 1/2" WIDE, 11 GAUGE STAINLESS STEEL TYPE 304 AT 4' MAXIMUM SPACING (MIN. OF 2) ANCHORED WITH 3/8" STAINLESS STEEL EXPANSION BOLTS. BRACKETS SHALL BE MADE BY RELINER-DURAN INC., LYME, CT. OR APPROVED EQUAL.
4. ALL INSIDE DROP CONNECTIONS FOR LATERALS AND MAINLINE SEWERS SHALL BE MADE BY RELINER-DURAN INC., LYME, CT. (860)434-0277, OR APPROVED EQUAL.
5. PROVIDE BEDDING MATERIAL IN ACCORDANCE WITH THE 48" SANITARY MANHOLE DETAIL.

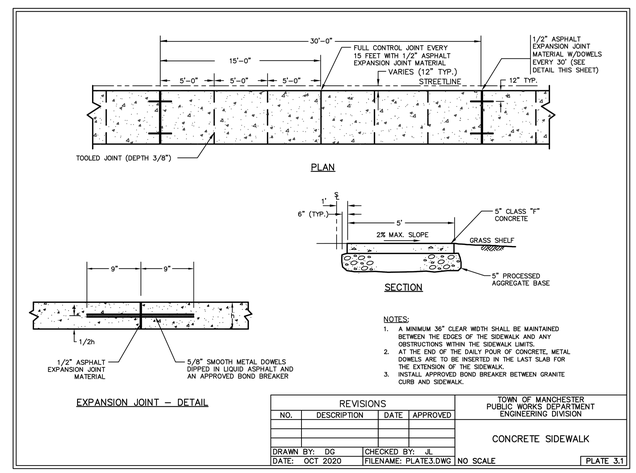
60" INSIDE DROP SANITARY MANHOLE

NOT TO SCALE



NOTES:
1. MAXIMUM WIDTH OF APRON IS 30' AT THE CURB LINE (INCLUDING CURB TRANSITIONS.) THE TOWN MAY ALLOW WIDER APRON WIDTHS TO ACCOMMODATE EXISTING ACCESS CONDITIONS AND/OR REQUIRED VEHICLE TURNING MOVEMENTS.
2. MINIMUM DISTANCE BETWEEN MULTIPLE DRIVEWAY OPENINGS SHALL BE 10'.
3. SEE RESPECTIVE DETAILS FOR CONCRETE SIDEWALK AND CURB.
4. RESIDENTIAL DRIVEWAY APRONS SHALL BE 6" THICK AND COMMERCIAL DRIVEWAY APRONS SHALL BE 8" THICK.
5. PAVEMENT COURSES AND PROCESSED AGGREGATE BASE THICKNESS SHALL MATCH EXISTING OR BE INSTALLED AS DIRECTED BY THE ENGINEER. PROCESSED AGGREGATE BASE THICKNESS SHALL BE 12" MINIMUM.
6. TOTAL HEIGHT OF LIP AND APRON TRANSITION SHALL BE 3" MAXIMUM ABOVE THE ROAD GUTTER. WHEN REQUIRED, REPLACE ADJACENT CONCRETE SIDEWALK SLABS AND RESET CURB AT 5% MAXIMUM SLOPE AS DIRECTED BY THE ENGINEER.

REVISIONS				TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
NO.	DESCRIPTION	DATE	APPROVED	
				CONCRETE DRIVEWAY APRON WITHOUT SHELF
DRAWN BY: DG	CHECKED BY: JL			
DATE: OCT 2020	FILENAME: PLATE7.DWG	NO SCALE		PLATE 7.1



NOTES:
1. A MINIMUM 36" CLEAR WIDTH SHALL BE MAINTAINED BETWEEN THE EDGES OF THE SIDEWALK AND ANY OBSTRUCTIONS WITHIN THE SIDEWALK LIMITS.
2. AT THE END OF THE DAILY POUR OF CONCRETE, METAL DOWELS ARE TO BE INSERTED IN THE LAST SLAB FOR THE EXTENSION OF THE SIDEWALK.
3. INSTALL APPROVED BOND BREAKER BETWEEN GRANITE CURB AND SIDEWALK.

REVISIONS				TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
NO.	DESCRIPTION	DATE	APPROVED	
				CONCRETE SIDEWALK
DRAWN BY: DG	CHECKED BY: JL			
DATE: OCT 2020	FILENAME: PLATE3.DWG	NO SCALE		PLATE 3.1

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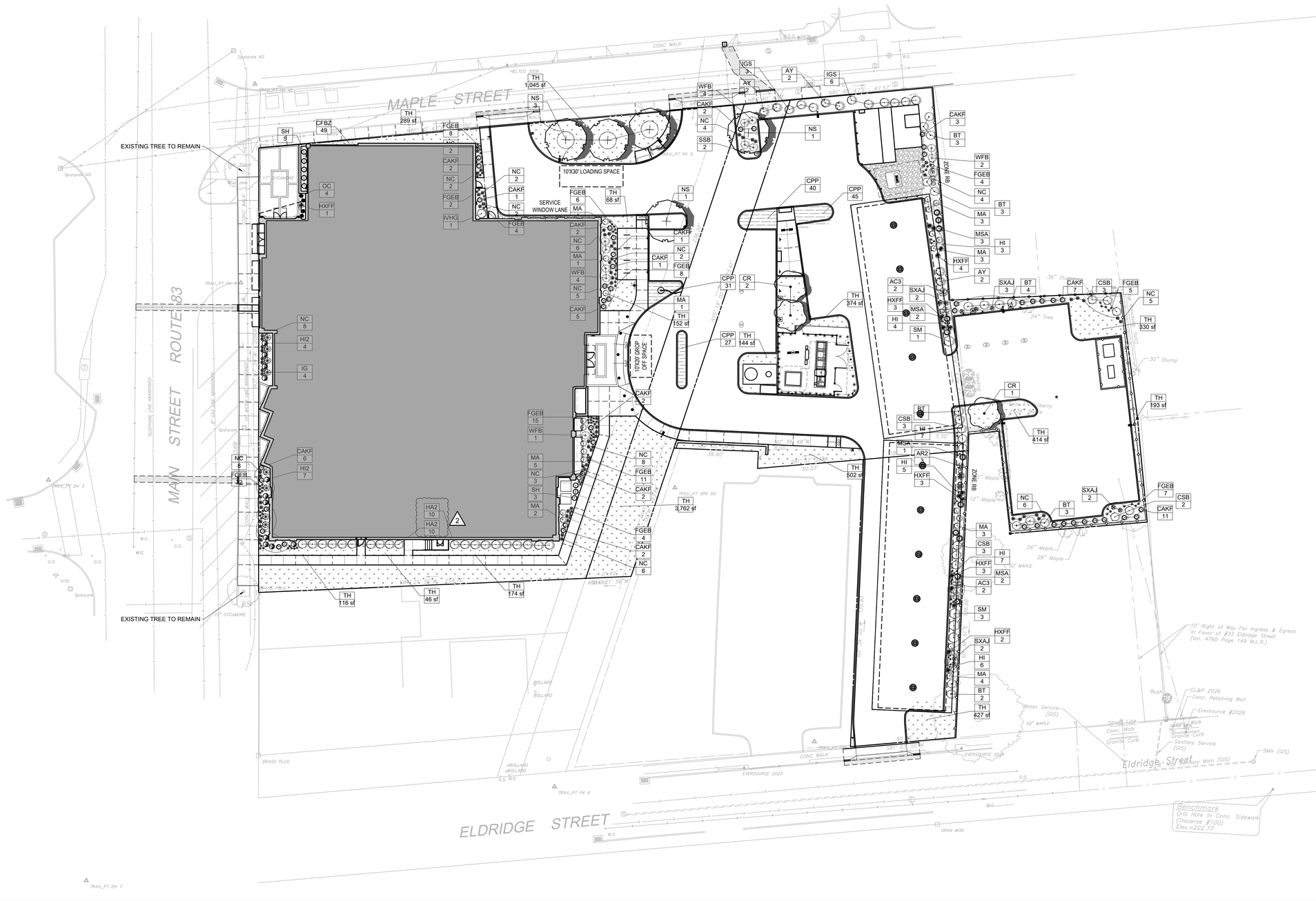
SITE DETAILS

DATE: 09/23/2024
SCALE
PROJ. #: 70757.01
DRAWN:
CHECKED:

SHEET NO.

C5.3



TOPSOIL, SEEDING & PLANTING NOTES

1. BLEND PROPOSED GRADES INTO EXISTING GRADES SMOOTHLY AND NEATLY. ALL SAWCUTS SHALL BE STRAIGHT AND CLEAN.
2. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES INCLUDING AREAS OUTSIDE OF THE CONTRACT LIMIT LINE, BUT WHICH ARE NOT COVERED BY OTHER SITE IMPROVEMENTS.
3. ALL PLANTING MATERIAL TO BE NURSERY GROWN STOCK SUBJECT TO APPLICABLE A.A.N. STANDARDS.
4. THE CONTRACTOR SHALL SUPPLY ALL PLANTS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT LIST. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT LIST AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER NUMBER SHALL APPLY.
5. ALL PLANTS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION AND SHALL BE LOCATED AT THE GROWING SITE BY THE CONTRACTOR, FOR THE APPROVAL OF THE LANDSCAPE ARCHITECT. ANY INSTALLATIONS WHICH WERE NOT APPROVED BY THE LANDSCAPE ARCHITECT AND WHICH ARE SUBSEQUENTLY REQUESTED TO BE REMOVED, WILL BE DONE AT THE CONTRACTORS EXPENSE.
6. PRECISE LOCATION OF ITEMS NOT DIMENSIONED ON THE PLAN ARE TO BE FIELD STAKED BY THE CONTRACTOR AND SHALL BE SUBJECT TO THE REQUIREMENTS SPECIFIED IN THE PREVIOUS NOTE.
7. ALL SHRUB AND TREE PITS SHALL BE MULCHED TO A DEPTH OF 3" WITH SHREDDED PINE BARK MULCH UNLESS INDICATED OTHERWISE.
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED VEGETATION AND SHALL REPLACE OR REPAIR ANY DAMAGE, AT HIS OWN EXPENSE.
9. ALL SHRUB AND GROUND COVER PLANTING AREAS SHALL HAVE CONTINUOUS BEDS OF AMENDED PLANTING SOIL TO A MINIMUM DEPTH OF 18 INCHES. SEE PLANTING PLANS FOR BED EXTENTS AND DETAILS FOR AREAS OF ADDITIONAL REQUIRED DEPTH.
10. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES IN THE FIELD. WHERE PLANT MATERIAL MAY INTERFERE WITH UTILITIES, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT TO COORDINATE THEIR INSTALLATION.
11. PLANTINGS INSTALLED IN THE DRY SUMMER MONTHS AND/OR LAWN SEEDED OUT OF SPRING OR FALL PERIODS, IF ALLOWED BY OWNER, WILL REQUIRE AGGRESSIVE IRRIGATION PROGRAMS AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
12. SUBSTITUTIONS PERMITTED ONLY UPON WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
13. PLANT TAGS TO REMAIN ON ALL PLANT MATERIAL UNTIL FINAL ACCEPTANCE. CONTRACTOR TO THEN REMOVE ALL PLANT TAGS.
14. WHERE A SIZE RANGE IS GIVEN IN THE PLANT SCHEDULE, AT LEAST 50% OF THE PLANTS PROVIDED SHALL BE OF THE LARGER SIZE.
15. CONTRACTOR TO GUARANTEE ALL PLANT MATERIAL FOR ONE YEAR AFTER DATE OF FINAL ACCEPTANCE.
16. CONTRACTOR TO MAINTAIN ALL PLANT MATERIAL UNTIL 60 DAYS AFTER FINAL ACCEPTANCE UNLESS NOTED OTHERWISE IN SPECS.

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PLANTING PLAN

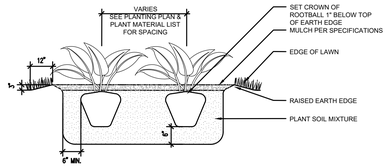
DATE: 09/23/2024
SCALE 1" = 20'-0"
PROJ. #: 70757.01
DRAWN: AMW
CHECKED: WGW

SHEET NO.

L1.0

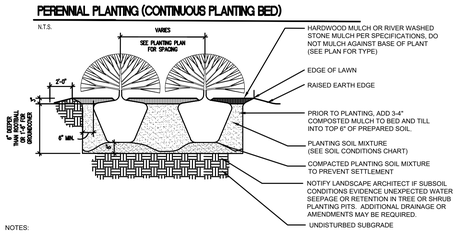
PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE		QTY
DECIDUOUS TREES							
	NS	NYSSA SYLVATICA / SOUR GUM	B & B	2"-2.5" CAL.	10-12` HT.		5
ORNAMENTAL TREES							
	CR	CORNUS X `RUTCAN` / CONSTELLATION FLOWERING DOGWOOD	B & B	1.5"CAL	8-10` HT.		3
SYMBOL	*CODE*	*BOTANICAL / COMMON NAME*	*SIZE*	*HEIGHT*	*SPREAD*		*QTY*
ANNUALS/PERENNIALS							
	HI	HELLEBORUS X HYBRIDUS 'COSEH 4500' / ICE N' ROSES® WHITE HELLEBORE	#2 CONT.	1'-2' HT.	1-1.5` SPR.		32
	HXFF	HOSTA X `FIRST FROST` / FIRST FROST PLANTAIN LILY	#1 CONT.	9-12" HT.	12-15" SPR.		16
	NC	NEPETA X 'CAT'S PAJAMAS' / CAT'S PAJAMAS CATMINT	#1 CONT.	1-2` HT.	1-1.5` SPR.		71
	SXAJ	SEDUM X `AUTUMN JOY` / AUTUMN JOY SEDUM	#3 CONT.	1-2` HT.	1-1.5` SPR.		9
DECIDUOUS SHRUBS							
	CSB	CORNUS SERICEA `BAILEYI` / BAILEYI RED TWIG DOGWOOD	#5 CONT.	3-4` HT.	30-36" SPR.		11
	HI2	HYDRANGEA ARBORESCENS 'NCHA5' / INVINCIBELLE® WEE WHITE HYDRANGEA	#5 CONT.	2-3` HT.	2-3` SPR.		11
	HA2	HYDRANGEA ARBORESCENS `ANNABELLE` / ANNABELLE HYDRANGEA	#5 CONT.	30-36" HT.	30-36" SP.		20
	IVHG	ITEA VIRGINICA `HENRY`S GARNET` / HENRY`S GARNET SWEETSPIRE	#5 CONT.	18-24" HT.	24-30" SP.		1
	SM	SYRINGA PATULA `MISS KIM` / MISS KIM KOREAN LILAC	#5 CONT.	30-36" HT.	30-36" SPR.		4
	WFB	WEIGELA FLORIDA `BOKRASPIWI` / SPILLED WINE WEIGELA	#3 CONT.	12-15" HT.	15-18" SPR.		11
EVERGREEN SHRUBS							
	AC3	AZALEA X 'CONLEE' / AUTUMN AMETHYST® ENCORE® AZALEA	#3 CONT.	18-24"	18-24"		4
	AR2	AZALEA X 'ROBLEC' / AUTUMN CARNATION® ENCORE® AZALEA	#3 CONT.	18-24"	18-24"		3
	AY	AZALEA X `NORTHERN HI-LIGHTS` / NORTHERN HI-LIGHTS EXBURY AZALEA	5 GAL	24-30" HT.	24-30" SPR.		6
	BT	BUXUS SINICA INSULARIS 'TIDE HILL' / TIDE HILL KOREAN BOXWOOD	#3 CONT.	2-3` HT.	2-3` SPR.		17
	IG	ILEX GLABRA 'SMNIGAB17' / GEM BOX® INKBERRY HOLLY	#3 CONT.	2-3` HT.	2-3` SPR.		8
	IGS	ILEX GLABRA `SHAMROCK` / SHAMROCK INKBERRY	#5 CONT.	24-30" HT.	24-30" SPR.		10
	MA	MAHONIA AQUIFOLIUM / OREGON GRAPE	#3 CONT.	2' HT.	2-3` SPR.		23
FERNS							
	OC	OSMUNDA CINNAMOMEA / CINNAMON FERN	#1 CONT.	1-2` HT.	1-1.5` SPR.		4
GRASSES							
	CAKF	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / KARL FOERSTER FEATHER REED GRASS	#3 CONT.	15-18" HT.	15-18" SPR.		47
	FGEB	FESTUCA GLAUCA `ELIJAH BLUE` / ELIJAH BLUE FESCUE	#1 CONT	9-12" HT.	9-12" SPR.		96
	MSA	MISCANTHUS SINENSIS `ADAGIO` / ADAGIO EULALIA GRASS	#2 CONT.	18-24" HT.	18-24" SPR.		11
	SSB	SCHIZACHYRIUM SCOPARIUM `THE BLUES` / THE BLUES LITTLE BLUESTEM	#1 CONT.	18-24" HT.	12-15" SPR.		2
	SH	SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	#2 CONT.	12-15" HT.	12-15" SPR.		8
SYMBOL	*CODE*	*BOTANICAL / COMMON NAME*	*CONT*	*HEIGHT*	*SPREAD*	*SPACING*	*QTY*
GROUND COVERS							
	CFBZ	CAREX FLACCA `BLUE ZINGER` / BLUE SEDGE	#1 CONT.	10-12" HT.	9-12" SPR.	12" o.c.	49
	CPP	CAREX PENSYLVANICA / PENNSYLVANIA SEDGE	#1	6-12" HT.	4-6" SPR.	24" o.c.	143
	TH	TURF SEED MIX	SEED				8,008 SF



PERENNIAL PLANTING (CONTINUOUS PLANTING BED)

N.T.S.

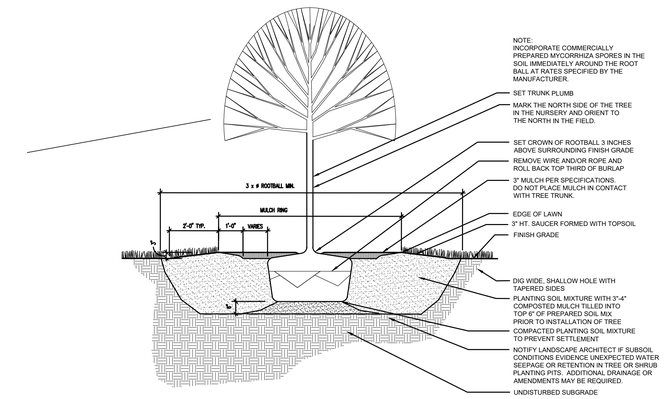


NOTES:

1. FOR CONTAINER GROWN SHRUBS, GENTLY PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF CONTAINER.
2. FOR B&B SHRUBS, FOLD BURLAP FROM TOP OF ROOT BALL DOWN TO GROUND.
3. INCORPORATE COMMERCIALLY PREPARED MYCORRHIZA SPORES IN THE SOIL IMMEDIATELY AROUND THE ROOT BALL AT RATES SPECIFIED BY THE MANUFACTURER.
4. CONFIRM THAT WATER DRAINS OUT OF THE SOIL DURING THE DESIGN PHASE, DESIGN ALTERNATIVE DRAINAGE SYSTEMS, AS REQUIRED.

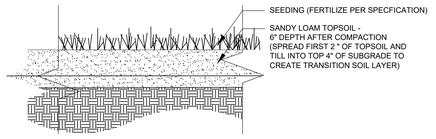
SHRUB PLANTING BED

N.T.S.



DECIDUOUS TREE PLANTING

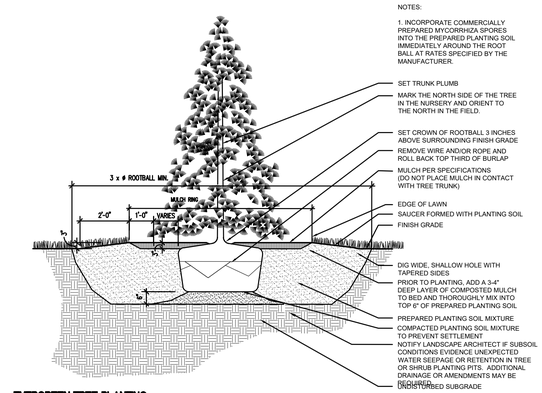
N.T.S.



1. TURF SEED MIX:
   - 1.1. PEARL'S PREMIUM
     - 1.1.1. 19.75% DAKOTA TALL FESCUE
     - 1.1.2. 19.75% FRONTIER PERENNIAL RYEGRASS
     - 1.1.3. 19.65% DEEPBLUE KENTUCKY BLUEGRASS
     - 1.1.4. 19.65% HARPOON HARD FESCUE
     - 1.1.5. 19.65% CARMEN CHEWINGS FESCUE (SUBMIT SEED MIX FOR APPROVAL)
2. TURF SEED QUALITY:
   - 2.1. WEED SEED: MAX. 0.50%, NO NOXIOUS WEED SEED
   - 2.2. PURITY: MIN. 97% PURE
   - 2.3. CROP: MAX. 0.50%
   - 2.4. GERMINATION RT: MIN. 80%
3. TOPSOIL
   - 3.1. TOPSOIL SHALL BE PER ASTM D 5268 WITH A PH RANGE OF 6 - 8, MINIMUM 6% ORGANIC MATERIAL CONTENT, FREE OF STONES 2" OR LARGER AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH AND FREE OF FOREIGN MATERIAL SUCH AS BROKEN GLASS, TRASH, ROOTS, ETC.
4. OTHER NOTES:
   - 4.1. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND WATERING OF GRASS UNTIL FINAL ACCEPTANCE.

TURF

N.T.S.



EVERGREEN TREE PLANTING

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CHECKED: WGW	

Columbia LIGHTING

LXEN

NARROW ENCLOSED AND GASKETED LINEAR

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FEATURES

- 4' fiberglass housing with F1 weatherability rating, standard
- Narrow housing design for applications with limited space
- IP65 and IP67 all models; IP66 all models with standard polyacetal (POM) latches
- UL Sanitation certified to NSF standards
- Lens firmly secured with captive tamper resistance ready polyacetal latches
- Removable gear tray electrical access
- Includes surface mounting brackets
- NEMA 4X housing
- Operates from -20°C to +50°C as standard

SERVICE PROGRAMS

STOCK

Typical Dimensions and Weights				
Size	(A) Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight Lbs (kg)
4'	51.75 (1314)	4.5 (114)	3.88 (98)	7.3 (3.3)

SPECIFICATIONS

CONSTRUCTION

- Housing is formed from UL 5VA fiberglass
- F1 weatherability rating, suitable for indoor or outdoor use with respect to exposure to UV light
- Pour-in-place non-porous gasketing assures seal
- LED affixed to removable gear tray
- 8 latches per 4' length
- Latches are provided tamper resistance ready, tamper resistant screws by others
- Latches are standard polyacetal (POM), optional in stainless steel
- Access openings are provided for electrical connection
- White painted parts are treated with a five-stage phosphate bonding process and finished with high reflectance baked enamel

OPTICS

- Lineal ribbed frosted acrylic lens impact modified equivalent to 100% DR; modification adds flexibility to reduce impact breakage compared to standard acrylic formulations

INSTALLATION

- Use flexible conduit only

ELECTRICAL

- Long life 60,000 hour LEDs at L80 for reduced maintenance
- Driver options include fixed output for on/off function or continuous 0–10V dimming
- QR code label affixed to housing for easy traceability

CERTIFICATIONS

- All luminaires are built to UL 1598 standards, and bear appropriate cCSAus labels
- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options
- Wet Location label standard
- UL Sanitation certified to NSF 2 Food Equipment standard for non- food zones
- Ingress protection IP65 and IP67 standard; IP66 on certain models

CERTIFICATIONS (CONTINUED)

- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See page 3 for wiring diagram.
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11) See Buy America(n) Solutions

WARRANTY

- 5 year warranty

STOCK GUIDE

STOCK

	Catalog No.	UPC	Description	Weight (lbs)	Pallet Qty	DLC GPL
	LXEN4-40LW-RPA-EDU	078513108800	4', 80 CRI, 4000K, 4250 Lumens, Surface Mount, Ribbed Frosted Acrylic Lens, 0-10V Dimming Driver, 120-277V, 33W, 0.8 LPW, White	7.3	63	P8Q8W3KH

Current

currentlighting.com/columbialighting

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KIM LIGHTING

UR20-Arm Mount

ARCHITECTURAL AREA/SITE

DATE: LOCATION:

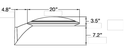
TYPE: PROJECT:

CATALOG #:

FEATURES

- 20" size in post top, pole and wall mount
- High performance optics up to 17,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- UL/cUL listed for wet locations, IP66 and 4G/1.5G vibration rated

3000K and warmer CCTs only



	Weight	EPA
UR20	32 lbs / 14.5 kg	0.372 ft.²

CONTROL TECHNOLOGY

LIGHTGRID

SPECIFICATIONS

CONSTRUCTION

- Low copper aluminum alloy die-casting is designed as one-piece with internal cooling fins.
- Solid, cast aluminum wall creates a thermal barrier between the optical and electrical compartments.
- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- Housing is designed with integral LED heat sink utilized for thermal transfer and for securing the location of each LED module.
- All external fasteners are stainless steel.
- One-piece low copper aluminum alloy die-cast lens frame is secured to housing with 6 screws.

OPTICS

- LEDs mount to a metal printed circuit board assembly (MCPCB).
- Optical lenses are clear injection molded PMMA acrylic.
- Optional Backlight Control on each LED module to completely control unwanted backlight.

LENS

- Standard lens (CLR) IK08
- Clear Polycarbonate Lens (CP) IK10

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

ELECTRICAL

- Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories listed.
- High voltage configurations, 347/480. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories listed.
- "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments.
- Luminaire shall be capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C.
- Surge protection: 10,000k in parallel, 20,000k in series
- Wiring: No. 18AWM rated 105°C, wet rating.

CONTROLS

7PR

- Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment, 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

- Traditional on/off photoelectric control.
- 5-pin wireless photoelectric control for added dimming feature.
- 7-pin wireless photoelectric control for for dimming and additional I/O connections for customer use.

(Specifications continued on page 5)

*Clear Polycarbonate Lens (CP) IK10, Standard lens (CLR) IK08, Consult factory for details

Current

currentlighting.com/kimlighting

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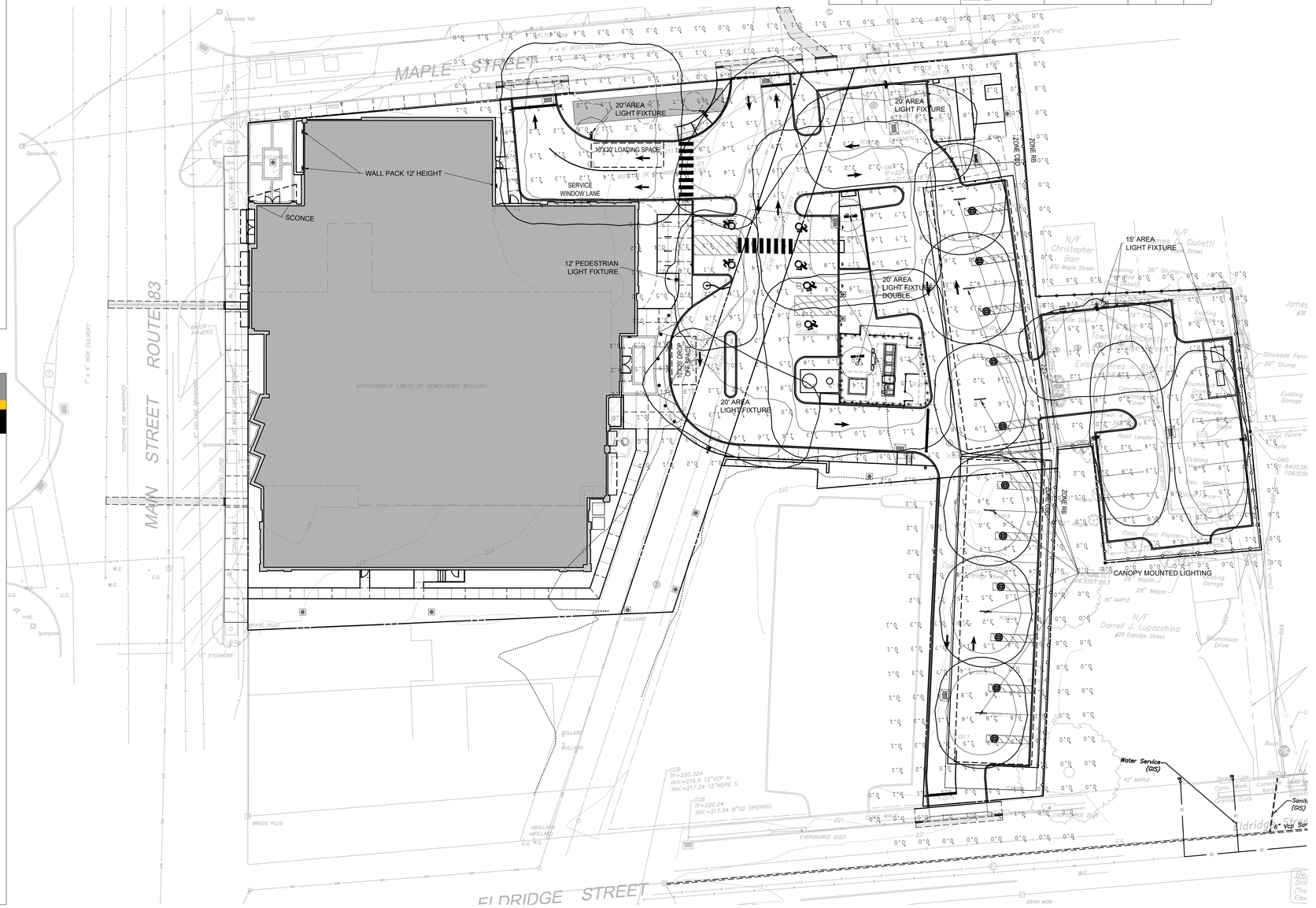
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Site	Illuminance	Fc	0.99	4.4	0.0	N.A.	N.A.
Walkway	Illuminance	Fc	0.67	0.9	0.4	1.68	2.25

Luminaire Schedule							
Symbol	Qty	Label	Description	Tag	Luminaire Lumens	Luminaire Watts	Total Watts
	6	SM	Columbia LXEN4-30LW-RPA-EDU- OPTIONS TBD	Surface Mount to Underside of Exterior Canopy	3812	29.871	179.226
	1	SL2-4WBC	KIM UR20-24L-65-3KT-4W-UNV- MOUNTING TBD-BLT-BC_RSS-K-13- 40A-OT-DRILL PATTERN TBD-BLT- OPTIONS TBD	Mounted 15FT AFG	4430	65	65
	2	SL2-3BC	KIM UR20-24L-65-3KT-3-UNV- MOUNTING TBD-BLT-BC_RSS-K-13- 40A-OT-DRILL PATTERN TBD-BLT- OPTIONS TBD	Mounted 15FT AFG	4121	65	130
	1	SL1-4WBC	KIM UR20-24L-65-3KT-4W-UNV- MOUNTING TBD-BLT-BC_RSS-K-10- 40A-OT-DRILL PATTERN TBD-BLT- OPTIONS TBD	Mounted 12FT AFG	4430	65	65
	3	SL-5QH	KIM UR20-24L-65-3KT-5QH-UNV- MOUNTING TBD-BLT-BC_RSS-K-18- 40A-OT-DRILL PATTERN TBD-BLT- OPTIONS TBD	Mounted 20FT AFG	7188	65	195
	3	SL-4WBC	KIM UR20-24L-65-3KT-4W-UNV- MOUNTING TBD-BLT-BC_RSS-K-18- 40A-OT-DRILL PATTERN TBD-BLT- OPTIONS TBD	Mounted 20FT AFG	4430	65	195



NOTES:

1. SEE DETAIL SHEET FOR SITE LIGHT POLE FOUNDATION
2. SEE UTILITY PLAN FOR UNDERGROUND ELECTRICAL CONDUIT

0 20' 40'

SCALE: 1" = 20'

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interior design
master planning
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MANCHESTER PUBLIC LIBRARY

PHASE 1

1041 Main Street, Manchester, CT 06040

REVISIONS		
NO.	DATE	DESCRIPTION
1	10-25-2024	P1 - BULLETIN #1
2	11-01-2024	P1 - BULLETIN #2
3	03-13-2025	PR-001 Revised
4	09-15-2025	E&S Plan Submission
5	09-19-2025	PR-23 - Carport/Rear Lot
6	11-24-2025	PR-24 - Utility Area
7	04-28-2026	PR-36 - BESS Relocation

MANCHESTER LIBRARY

PHOTOMETRICS PLAN

DATE: 09/23/2024
SCALE 1" = 20'-0"
PROJ. #: 70757.01
DRAWN: AMW
CHECKED: WGW

SHEET NO.

L2.0