Northborough Fire Station

63 West Main Street Town of Northborough, MA

CIVIL ENGINEER:

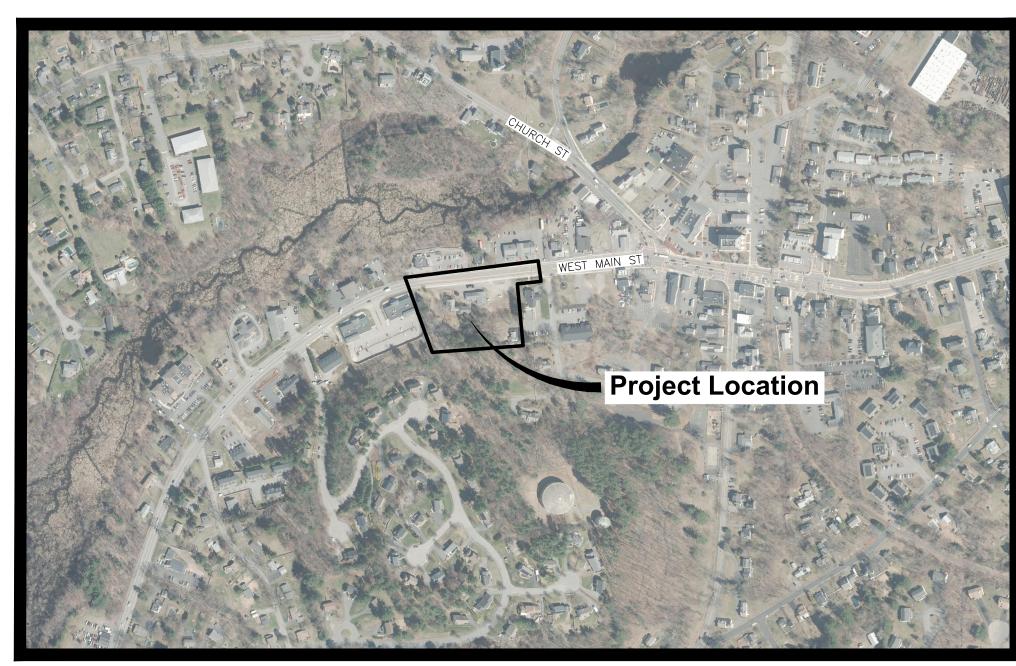


PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

ARCHITECT:







Scale : N.T.S.

INDEX OF DRAWINGS

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PLANNING BOARD SUBMISSION MARCH 18, 2024 REVISED APRIL 23, 2024

REFERENCE

- 1. PROJECT LOCATION: 61 AND 65 WEST MAIN STREET, AND 10 MONROE STREET, NORTHBOROUGH, MA 01532. ASSESSOR'S MAP 63, LOT 9 PARCEL 2, LOT 10 PARCEL 1, AND LOT 7.
- 2. EXISTING CONDITIONS MAPPING TAKEN FROM PLAN ENTITLED "EXISTING CONDITIONS PLAN 61-65 WEST MAIN STREET NORTHBOROUGH, MA" PREPARED BY CHAPPELL ENGINEERING ASSOCIATES, LLC, DATED SEPTEMBER 1, 2023. DATUMS: HORIZONTAL: NAD 83, VERTICAL: NAVD 88.

GENERAL NOTES

- 1. THE COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGE CONSTRUCTION, 2021 EDITION OR LATEST REVISION, AND THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL MEET OR EXCEED THE MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, WITH LATEST REVISIONS. THE LATEST REVISION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION.
- 2. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND OWNER'S REPRESENTATIVE AS REQUIRED.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS IN ACCORDANCE WITH OSHA FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEERS APPROVAL.
- 5. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND COORDINATE ANY DEVIATIONS WITH THE ENGINEER AND OWNER.
- 6. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 7. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT.
- 8. ALL SIGNS SHALL BE REFLECTORIZED TYPE III SHEETING AND CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION.
- ALL UTILITIES (LOCATION AND ELEVATION) DEPICTED SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ALL DAMAGE TO EXISTING UTILITIES OR STRUCTURES, AND THE COST TO REPAIR THE DAMAGES TO INITIAL CONDITIONS, AS SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY
- 10. NO EXCAVATION SHALL BE DONE UNTIL COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE. NOTE THAT NOT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL RESPECTIVE UTILITY COMPANIES TO VERIFY AND LOCATE EXISTING UTILITIES.

LAYOUT NOTES

- 1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
- 2. ACCESSIBLE RAMPS SHALL BE PER THE AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND CODE OF MASSACHUSETTS REGULATIONS (CMR) TITLE 521 OF THE ARCHITECTURAL ACCESS BOARD REGULATIONS.
- 3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK. THE CONTRACTOR SHALL CONTACT PARE CORPORATION IF ANY DISCREPANCIES ARE FOUND.
- 4. DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB. DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING TO FACE OF CURB.
- ALIGN WALKWAYS ON DOORWAYS THEY SERVE TO PROVIDE MINIMUM REQUIRED MANEUVERING CLEARANCE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND CODE OF MASSACHUSETTS REGULATIONS (CMR) TITLE 521 OF THE ARCHITECTURAL ACCESS BOARD REGULATIONS.

DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, UTILITY, AND LANDSCAPING DRAWINGS.
- 2. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. THE CONTRACTOR SHALL COORDINATE ALL UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, OWNER AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.
- 3. WATER, SEWER, DRAINAGE, GAS, AND OTHER SITE UTILITIES SERVICING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION.
- 4. THERE SHALL BE NO INTERRUPTION OF UTILITY SERVICES DURING THE CONSTRUCTION OPERATION WITHOUT APPROVAL OF THE OWNER.

GRADING AND UTILITY NOTES

- 1. UNDERGROUND UTILITIES DEPICTED WERE COMPILED FROM AVAILABLE RECORD PLANS AND SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES DEPICTED OR NOT DEPICTED ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS TO REPAIR SUCH DAMAGES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.
- 2. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS.
- 3. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
- 4. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
- 5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
- 6. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION SHALL BE PROVIDED ON A SKETCH TO SCALE OF THE EXISTING UTILITY WITH TIES TO KNOWN POINTS, PHOTOS AND FURNISHED TO THE ENGINEER FOR RESOLUTION.
- 7. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION, ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS SHALL BE RESTORED TO ORIGINAL CONDITION,
- 8. GAS, ELECTRIC, AND COMMUNICATIONS ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY APPROPRIATE UTILITY COMPANIES.
- 9. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- 10. ALL GRAVITY SANITARY PIPING SHALL BE SDR-35 PVC. ALL SEWER CONSTRUCTION SHALL CONFORM TO THE TOWN OF NORTHBOROUGH WATER AND SEWER COMMISSION REGULATIONS.
- 11. ALL WATER LINE BENDS AND TEES SHALL BE REINFORCED WITH THRUST BLOCKS. ALL WATER DISTRIBUTION PIPING AND FITTINGS MUST ADHERE TO THE TOWN OF NORTHBOROUGH WATER AND SEWER COMMISSION REGULATIONS SPECIFICATIONS AND SHALL BE INSPECTED BEFORE, DURING, AND AFTER CONSTRUCTION PRIOR TO TAPPING THE SERVICE MAIN.
- 12. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- 13. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
- 14. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS AND GRADING PLAN.

STATE RIGHT-OF-WAY NOTES

- 1. ALL WORK TO BE PERFORMED WITHIN THE COMMON WEALTH OF MASSACHUSETTS PUBLIC RIGHT-OF-WAY (ROW) SHALL CONFORM TO THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGE CONSTRUCTION, 1988 EDITION OR LATEST REVISION, AND THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARD DETAILS.
- 2. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN A UTILITY PERMIT FROM THE MASSDOT FOR UTILITY WORK WITHIN THE PUBLIC ROW AND MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND OWNER'S REPRESENTATIVE AS REQUIRED.
- 3. THE CONTRACTOR SHALL PREPARE A TRANSPORTATION MANAGEMENT PLAN INCLUDING A TEMPORARY TRAFFIC CONTROL PLAN AS REQUIRED FOR THE MASSDOT UTILITY PERMIT APPLICATION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 4. ALL TEMPORARY TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST REVISION.

EROSION AND SEDIMENTATION CONTROL NOTES - MASSACHUSETTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY'S (EPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT (CGP) AND THE CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL PREPARE AND SUBMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PRIOR TO CONSTRUCTION.
- 3. SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND THE NOTES AND DETAILS SHOWN IN THIS PLAN SET.
- 4. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 5. REQUIRED PERIMETER CONTROL SHALL BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK. SUCH FACILITIES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
- AS FEASIBLE, CONSTRUCTION SHALL BE PHASED TO LIMIT THE AREA OF EXPOSED SOIL AND THE DURATION OF EXPOSURE. ALL DISTURBED AREAS SHALL BE TEMPORARILY AND/OR PERMANENTLY STABILIZED WITHIN 14 DAYS FOLLOWING COMPLETION OF GRADING ACTIVITIES.
- 7. THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 8. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT THE EROSION CONTROL BARRIERS ARE INTACT.
- 9. CLEAN AND MAINTAIN SEDIMENTATION CONTROL BARRIERS WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE BARRIER. MATERIAL COLLECTED FROM THE SEDIMENTATION BARRIER SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
- 10. THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES OR ROUTINE MAINTENANCE.
- 11. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUB GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
- 12. SOIL AND OTHER MATERIALS RESULTING FROM SITE CLEARING MAY BE RECYCLED AND/OR REUSED ON THE SITE AS APPROPRIATE. WASTE MATERIALS SHALL BE REMOVED FROM THE SITE.
- 13. CRUSHED STONE CONSTRUCTION ENTRANCES SHALL BE ESTABLISHED AT ALL POINTS OF INGRESS AND EGRESS.
- 14. TEMPORARY DIVERSIONS (TD) MAY CONSIST OF A DITCH OR SWALE, OR MAY BE ACHIEVED USING WOOD CHIP PILES, COIR LOGS, OR SIMILAR MATERIALS.
- 5. TEMPORARY SEDIMENT TRAPS (TST) AND TEMPORARY SWALES (TS) SHALL BE SIZED BY THE CONTRACTOR USING THE PARAMETERS CONTAINED IN THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES.
- 16. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 17. CATCH BASINS AND STORM DRAINS SHALL BE PROTECTED WITH HAY BALES OR SEDIMENT BAGS IN PAVED AREAS UNTIL CONTRIBUTING AREA IS PERMANENTLY STABILIZED.
- 18. DEWATERING WASTEWATER PUMPED FROM EXCAVATIONS SHALL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO A DEWATERING BASIN, HAY BALE CORRALS, OR SEDIMENTATION BAGS.
- 19. CONSTRUCTION SITE WASTE MATERIALS SHALL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
- 20. RIPRAP OR OTHER ENERGY DISSIPATERS SHALL BE USED WHERE NECESSARY TO CONTROL EROSION.
- ANY EQUIPMENT THAT IS NOT READILY MOBILE (TRACK MACHINERY) SHALL BE PARKED WITHIN THE PROJECT LIMIT OF DISTURBANCE. LARGE AND/OR BULKY MATERIALS SHALL BE STORED SUCH THAT THEY DO NOT INTERFERE WITH THE ONGOING CONSTRUCTION ACTIVITIES OR EROSION CONTROL MEASURES.
- 22. NEWLY VEGETATED AREAS SHALL BE REGULARLY INSPECTED AND MAINTAINED TO ENSURE THE ESTABLISHMENT OF STABLE VEGETATED SURFACES.
- 23. THE CONTRACTOR SHALL NOT REMOVE ANY COMPOST FILTER SOCKS OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING AREA IS
- 24. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE OF THE FINAL PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUB GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
- 25. INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 26. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS UPON COMPLETION OF WORK IN THAT AREA.

STORMWATER MANAGEMENT SYSTEM INSPECTION AND MAINTENANCE NOTES

DURING CONSTRUCTION (CONTRACTOR'S RESPONSIBILITY)

- 1. THE CONTRACTOR SHALL REMOVE SEDIMENT AND DEBRIS FROM ALL CATCH BASINS, MANHOLES, AND THE DRAINAGE SYSTEM ON A ROUTINE BASIS, IMMEDIATELY FOLLOWING SITE STABILIZATION, AND PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- 2. THE CLOSED DRAINAGE SYSTEM AND ASSOCIATED STRUCTURES SHALL BE CLEANED AND FLUSHED BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM UNTIL ACCEPTANCE OF THE SYSTEM BY THE ENGINEER AND THE TOWN OF NORTHBOROUGH. FOLLOWING ACCEPTANCE OF THE PROPOSED DRAINAGE SYSTEM, THE OWNER OF THE SITE SHALL BE RESPONSIBLE FOR THE LONG-TERM INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM.
- 3. ANY ACCUMULATION OF PONDING WATER IN AREAS WITHIN THE LIMITS OF DISTURBANCE, OTHER THAN DESIGNATED AREAS, SHALL BE REMOVED ACCORDINGLY AND PREVENTED IN THE FUTURE.

POST CONSTRUCTION (OWNER'S RESPONSIBILITY)

- 1. TRASH, LITTER, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER MANAGEMENT SYSTEM FACILITY (INCLUDING BUT NOT LIMITED TO CATCH BASINS, MANHOLES, INLET, OUTLET AND DIVERSION STRUCTURES, AND STORMWATER BEST MANAGEMENT PRACTICES (BMPs)) A MINIMUM OF TWO TIMES PER YEAR, PREFERABLY IN THE SPRING AND FALL.
- 2. THE PARKING LOT AND ENTRY DRIVE SHALL BE SWEPT BY THE OWNER AS EARLY AS POSSIBLE EVERY SPRING AND ONCE IN THE FALL TO REMOVE SEDIMENTS.
- 3. ALL CLEANING AND MAINTENANCE OF STORMWATER MANAGEMENT SYSTEMS POST-CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE OWNER.

CATCH BASINS WITH SUMPS INSPECTION, MAINTENANCE, AND REPAIR NOTES

- 1. INSPECTIONS SHALL BE PERFORMED A MINIMUM OF TWO TIMES PER YEAR (SPRING/FALL). UNITS SHALL BE CLEANED ANNUALLY AND WHENEVER THE DEPTH OF SEDIMENT IS GREATER THAN OR EQUAL TO HALF THE SUMP DEPTH.
- 2. THE INLET GRATE SHALL NOT BE WELDED TO THE FRAME OR PAVED OVER SO THAT THE SUMP CAN BE EASILY INSPECTED AND MAINTAINED.
- 3. CARE SHALL BE TAKEN TO AVOID DAMAGING AND DISPLACING HOODS PLACED ON HOODED OUTLETS DURING CLEANING.

UNDERGROUND INFILTRATION/DETENTION SYSTEM BASIN INSPECTION, MAINTENANCE, AND REPAIR NOTES

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE OWNER.

- 1. THE SYSTEM SHALL BE MAINTAINED AS RECOMMENDED BY THE MANUFACTURER.
- 2. FOLLOWING STORM EVENTS WITH RAINFALL EXCEEDING 2.7"
- INSPECT INFILTRATION/DETENTION SYSTEM FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
- 3. BI-ANNUALLY
 - INSPECTIONS SHALL BE PERFORMED A MINIMUM OF TWO TIMES PER YEAR ON THE INSPECTION PORTS AND DRAINAGE STRUCTURES OF THE UNDERGROUND INFILTRATION/DETENTION SYSTEM TO ENSURE PROPER OPERATION OF THE SYSTEM.
- 4. JETVAC MAINTENANCE IS RECOMMENDED IF SEDIMENT HAS BEEN COLLECTED TO A DEPTH OF 3" IN THE PRETREATMENT ROW. MORE FREQUENT MAINTENANCE MAY BE REQUIRED TO MAINTAIN MINIMUM FLOW RATES THROUGH THE PRETREATMENT ROW. THE JETVAC PROCESS SHALL ONLY BE PERFORMED ON THE PRETREATMENT ROW.



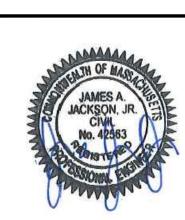
SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON

ORIGINAL DRAWING

hborough New Fire Stati



REVISIONS:

APPROVED BY:

DRAWING TITLE:

DRAWING NO.

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DA	ATE:	APRIL 23, 2024
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DE	SIGNED BY	' :
CH	ECKED BY:	
DF	RAWN BY:	AKL

NOTES

SHEET NO. 2 OF

NOT FOR CONSTRUCTION



CONSTRUCTION NOTES - MASSDOT STANDARDS

SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON ORIGINAL DRAWING

Northborough New Fire Station



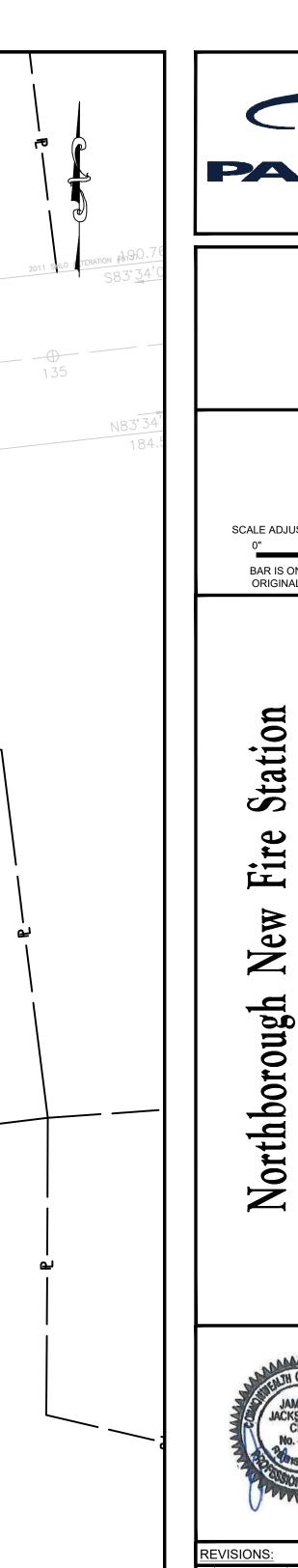
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	LEGEND								

DRAWING NO.:

SHEET NO. 3 OF

NOT FOR CONSTRUCTION

ZONING TABLE EXISTING ZONE: DB-DOWNTOWN BUSINESS TOTAL LOT AREA MAP 63 LOT 9 PARCEL 2 = 0.55 ACRES MAP 63 LOT 10 PARCEL 1 = 2.73 ACRES MAP 63 LOT 7 = 0.43 ACRES BUILDING AREA 30,000 ± SF REQUIRED PROVIDED BENCHMARK: "B" NAIL IN JUTE BOOKS, POLE EL=301.16' BUILDING SETBACK DMH R=300.69 I1=297.29' (12"RCP) I2=298.79' (DROP INLET) FRONT SETBACK 6 FT 39 FT SIDE SETBACK 53 FT REAR SETBACK NONE 126 FT MAX. FRONT SETBACK 20 FT * 39 FT MIN. LOT FRONTAGE 411 FT BLDG 42 FT & E: 616299.244' 45 FT MAX. BUILDING HEIGHT TOWER 68 FT ± MAX. LOT COVERAGE 14% 14% MIN. OPEN SPACE 15% >15% 161,531 SF 4,000 SF MIN. LOT AREA (3 LOTS) * THE ZONING BOARD OF APPEALS GRANTED A DIMENSIONAL VARIANCE TO ALLOW THE PROPOSED BUILDING TO BE UP TO 40 FEET FROM THE FRONT LOT LINE TO ENABLE THE LARGE FIRE APPARATUS TO MANEUVER INTO/OUT OF THE BUILDING AND MAINTAIN THE MAXIMUM GRADE OF 3% AND ENSURE CLEAR SIGHT LINES. PARKING SUMMARY REQUIRED* PROVIDED STANDARD SPACES (9'x18') 44 44 ACCESSIBLE SPACES** 3 3 EV SPACES 6 6 PROPOSED FIRE STATION BUILDING 30,000 ± SF TOTAL SPACES 53 53 * BASED ON PROGRAMMING NEEDS 23 EMPLOYEE SPACES (16 FIRE STAFF, 7 ADMINISTRATION) 30 VISITOR SPACES ** ADA REQUIREMENT FOR PARKING LOT 51 TO 75 TOTAL SPACES = 3 SPACES 73—79 WEST MAIN STREET
N/F
JOANNA C & JOHN D VOYIATZIS
BK. 64017 PG. 377
MAP 63 LOT 11



45 WEST MAIN STREET

N/F BRIAN J & KIMBERT A GANGER TRUSTEES BK. 62859 PG. 67 MAP 63 BLOCK 160 LOT 1

N: 2941312.428'

11 MONROE STREET
N/F
JSC ASSABET LLC
BK, 59188 PG, 146
MAP 63 BLOCK 161 LOT 0

NOT FOR CONSTRUCTION

N: 2941578.007

53 WEST MAIN STREET

ASSESSOR'S MAP 63

ASSESSOR'S MAP 63 LOT 7



REVISIONS:						
PROJECT NO.: 23141.00						
OATE: APRIL 23, 2024						
SCALE:	1"=40'					
DESIGNED BY	.					
CHECKED BY:						
DRAWN BY: AKL						
APPROVED BY:						
PRAWING TITLE:						
OVERALL PLAN						

DRAWING NO.:

SHEET NO.

SCALE ADJUSTMENT GUIDE BAR IS ONE INCH ON

ORIGINAL DRAWING

Fire

DEMOLITION NOTES: EROSION AND SEDIMENT CONTROL NOTES: LEGEND: REMOVE & DISPOSE TREE. DISPOSE 1. UTILITY SERVICE TO THE FACILITY SHALL NOT BE INTERRUPTED DUE TO UTILITY WORK SHOWN HEREON. 1. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM OF TREE AND STUMP OFF-SITE. ALL UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. 3. PRIOR TO COMMENCING SITE WORK IN ANY AREA, THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES PROTECT EXISTING TREE TO REMAIN. 2. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH WITH THE PROJECT AREA USING GROUND-PENETRATING RADAR OR OTHER NONDESTRUCTIVE SURVEY METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING UTILITIES OR STRUCTURES BASINS UNTIL THE UPSTREAM AREA IS STABILIZED. WITHIN THE PROJECT AREA DEPICTED AND NOT DEPICTED ON THE PLANS. ANY DAMAGE TO EXISTING PRIOR TO COMMENCING WORK, WORKING UTILITIES OR STRUCTURES NOT INTENDED TO BE REMOVED SHALL BE RESTORED TO ORIGINAL 3. CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE CONTRACTOR SHALL EXCAVATE TEST CONDITION AT NO ADDITIONAL COST TO THE OWNER. THROUGHOUT CONSTRUCTION. PIT TO CONFIRM LOCATION, ELEVATION, AND SIZE OF UTILITY 4. PRIOR TO ANY UTILITY AND/OR DRAINAGE SYSTEM DEMOLITION, PROVISIONS FOR MAINTAINING THE UTILITY 4. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE INFORMATION TO ENGINEER. REPLACE DAMAGED EROSION CONTROLS AT THE OWNER AND ENGINEER'S REQUEST AT NO ADDITIONAL EXPENSE TO SHALL BE APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE BEFORE ANY RELATED WORK MAY COMMENCE. THE OWNER. TDS - TEMPORARY DIVERSION SWALE/BERM 5. ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL IT IS CONNECTED IN 5. THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TST - TEMPORARY SEDIMENT TRAP TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR GREATER THAN 14 DAYS. ITS POST-CONSTRUCTION POSITION. TST LIMITS OF WET STORAGE AREA 6. REFER TO ELECTRICAL SITE PLAN FOR ALL ELECTRICAL AND TELECOMMUNICATIONS WORK, INCLUDING 6. INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROLS FOR REVIEW WITH GENERAL CONTRACTOR AND TST LIMITS OF DRY STORAGE AREA OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK. 7. REFER TO "NOTES" FOR ADDITIONAL NOTES. REFER TO "NOTES" FOR ADDITIONAL NOTES. BAR IS ONE INCH ON I1=294.86' (12"RCP) ORIGINAL DRAWING SEWER -TIP AND STRAW BALE Station SEWER GATE SIGN CM (TYP)-**UTILITY POLE** DRAIN N: 2941578.00 -R&D SIGN E: 616851.123 EL: 300.143' -R&D HMA-CONCRETE R = 300.54-R&D HMA 15 WASHOUT | 1=290.94' (12"DIP) -CUT & CAP FOR 616622.2**AREA** 12=290.94' (12"DIP) CONNECTION CONC WALK 13=290.94' (6"DIP) ======= ETR J STONE -CONSTRUCTION ENTRANCE (SEE DETAIL) STOCKPILE WALL BK. 54627 PG. 371-53 WEST MAIN STREET N/F WESTBORO SAVINGS BANK BK. 06903 PG. 0244 MAP 63 LOT 8 -CONTRACTOR SHALL CONSTRUCT AS TEMP DIVERSION BERM/SWALE TO DIVERT RUNOFF FROM ADJACENT PROPERTY AROUND UNSTABILIZED AREAS. OFFSITE FLOW ONTO THE SITE SHALL NOT MIX WITH SEDIMENT. IF OFFSITE FLOW BECOMES SEDIMENT LADEN, CONTRACTOR SHALL DIVERT TO A TEMPORARY SEDIMENT TRAP SIZED TO HANDLE THE FLOW IT IS RECEIVING PRIOR TO DISCHARGING. FIREPLACE **EVISIONS**: 73-79 WEST MAIN STREET ANNA C & JOHN D VOYIATZIS BK. 64017 PG. 377 MAP 63 LOT 11 STONE WALL CONTRACTOR SHALL CONSTRUCT A TEMP DIVERSION BERM/SWALE TO DIVERT RUNOFF FROM ADJACENT STAIRS PROPERTY AROUND UNSTABILIZED AREAS. OFFSITE FLOW ONTO THE SITE SHALL NOT MIX WITH SEDIMENT. IF ST<u>ONE</u> WALL LIMIT OF CLEARING (TYP)-**DRAWING NO.:** C2.0 NOT FOR CONSTRUCTION SHEET NO.

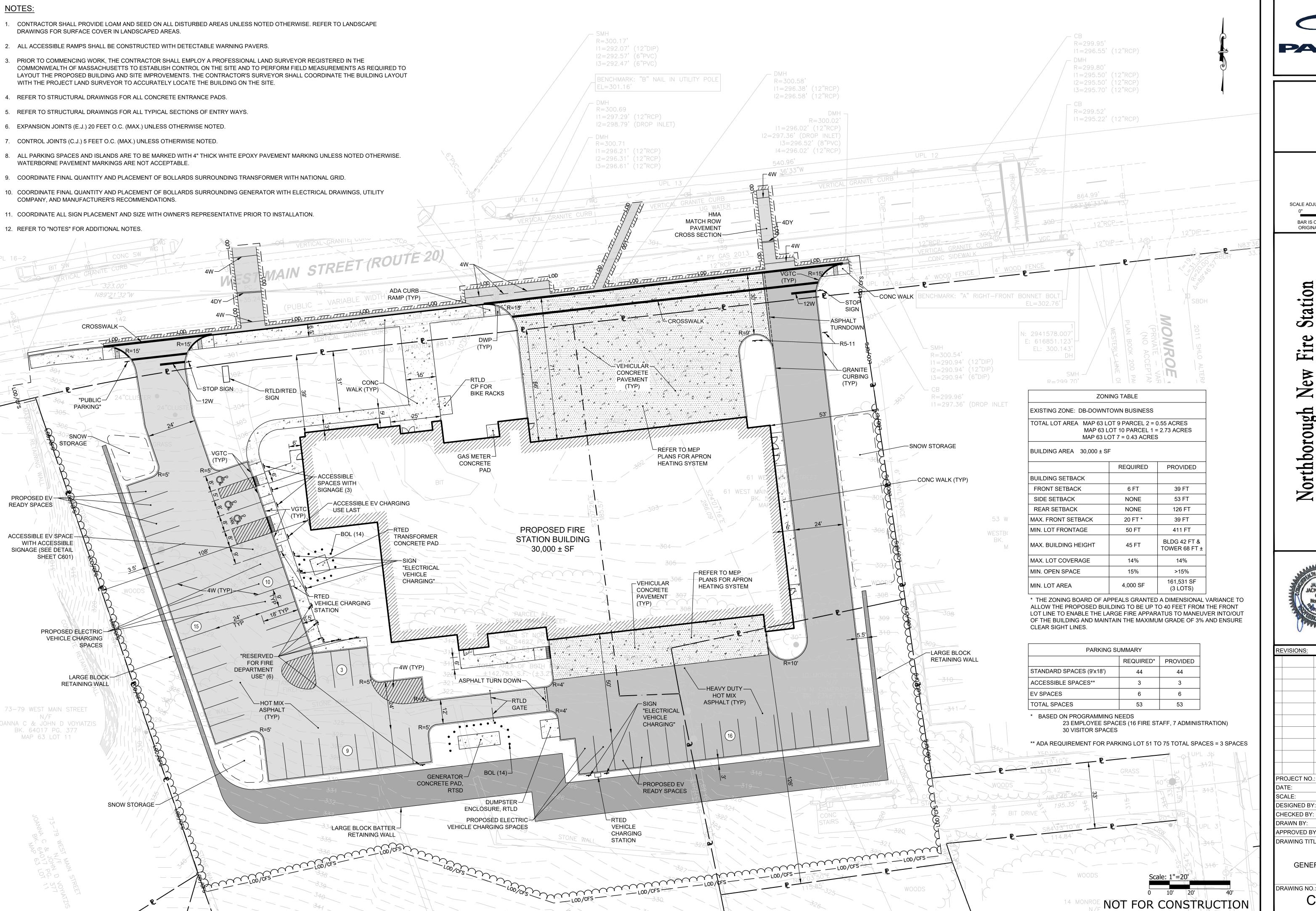


SCALE ADJUSTMENT GUIDE

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ROJECT NO.: 23141.00								
ATE:	APRIL 23, 2024							
CALE:	1"=20'							
ESIGNED BY								
HECKED BY:								
RAWN BY:	RAWN BY: AKL							
PPROVED BY:								
RAWING TITLE:								
EMOLITION, EROSION & SEDIMENT CONTROL PLAN								





SCALE ADJUSTMENT GUIDE

BAR IS ONE INCH ON

ORIGINAL DRAWING

Station ire rthborough

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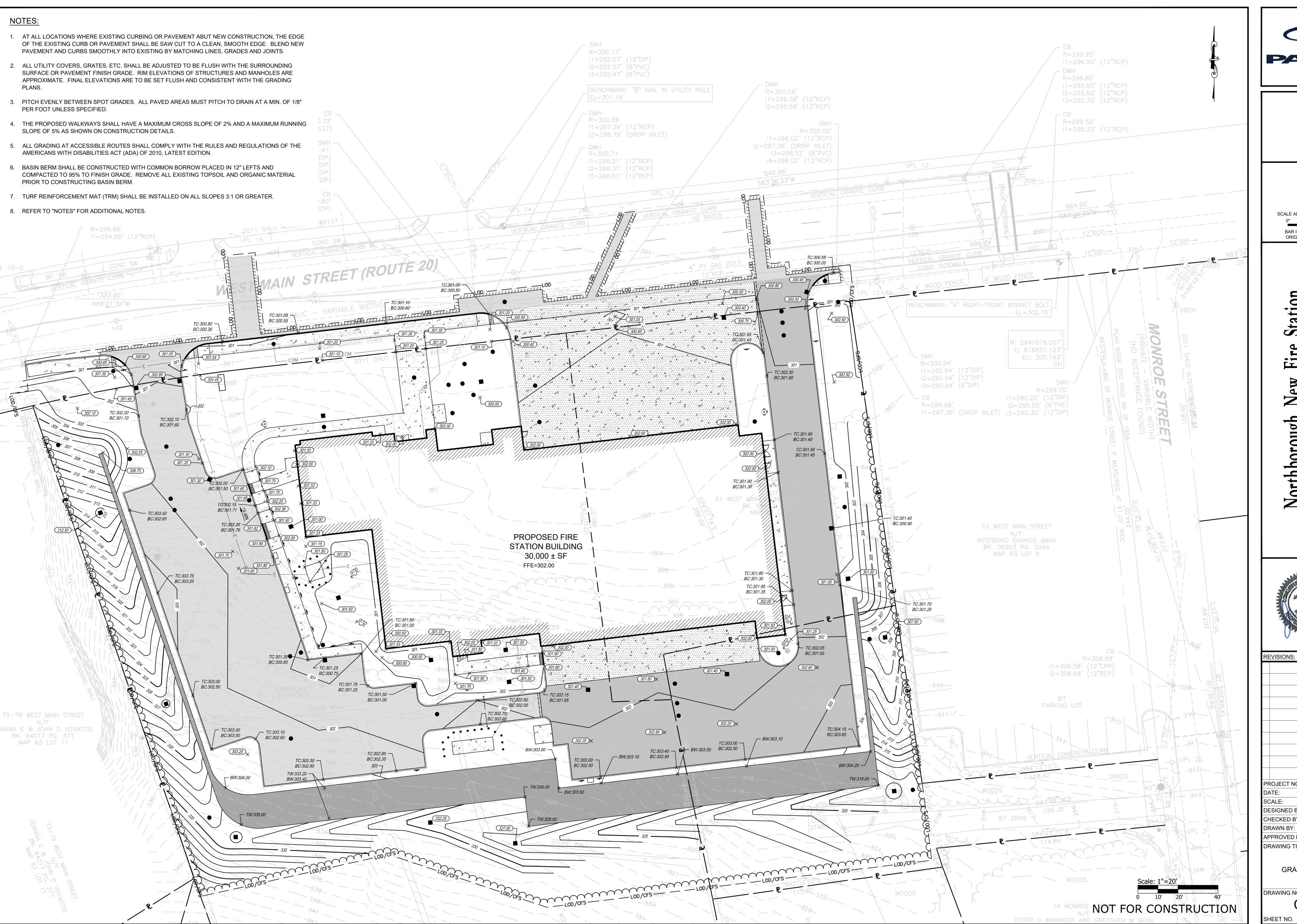


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ATE:	APRIL 23, 2024						
CALE:	1"=20'						
ESIGNED BY	' :						
HECKED BY:							
RAWN BY:	PRAWN BY: AKL						
PPROVED BY:							
RAWING TITLE:							
GENERAL PLAN							

C3.0

SHEET NO.





SCALE ADJUSTMENT GUIDE

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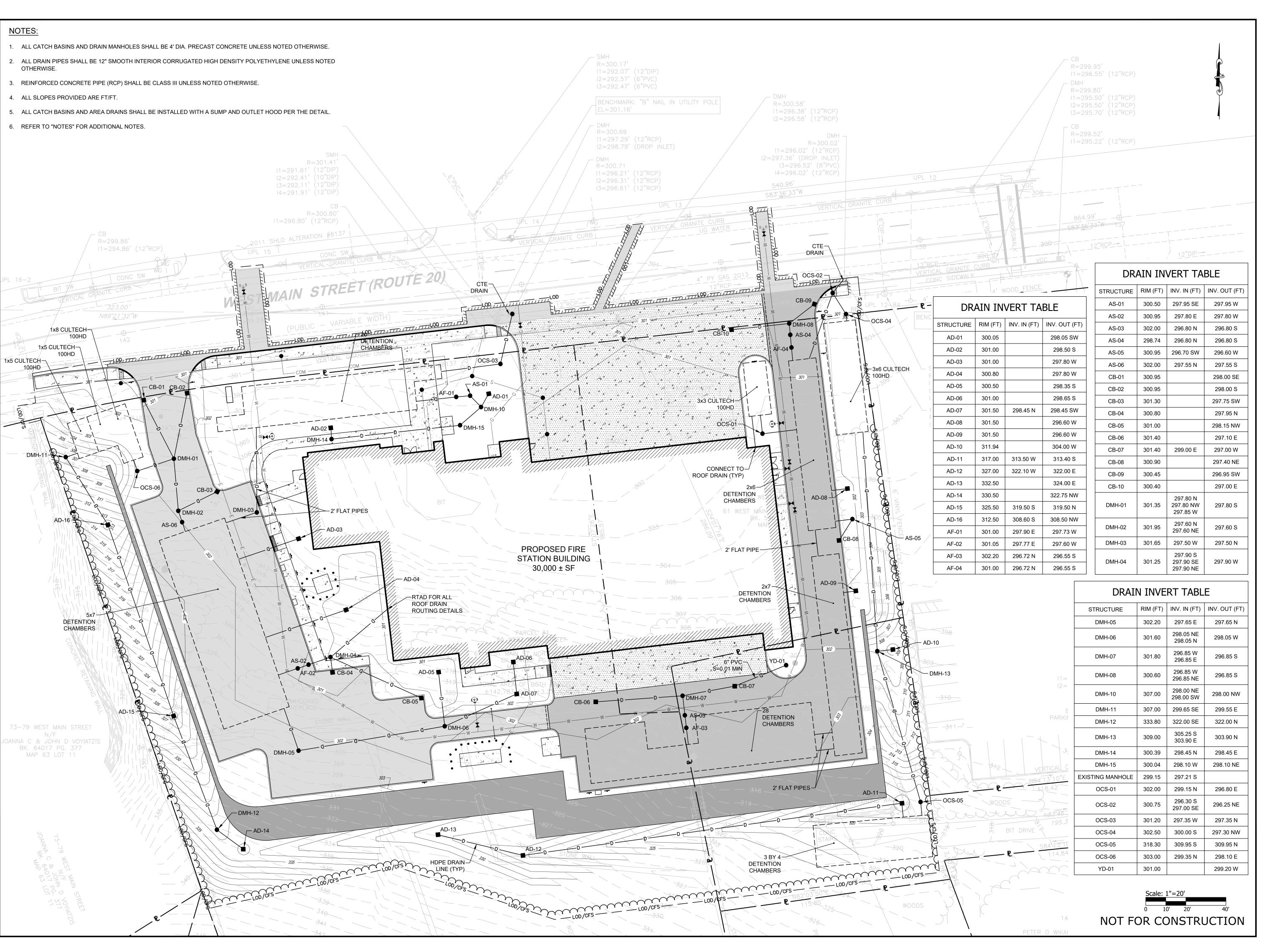
ORIGINAL DRAWING

Station Fire

rthborough

PROJECT NO.: 23141.00 APRIL 23, 2024 **DESIGNED BY:** CHECKED BY: DRAWN BY: APPROVED BY: DRAWING TITLE: **GRADING PLAN**

DRAWING NO.: C4.0





SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON

ORIGINAL DRAWING

Northborough New Fire Station
63 West Main Street
Town of Northborough, MA

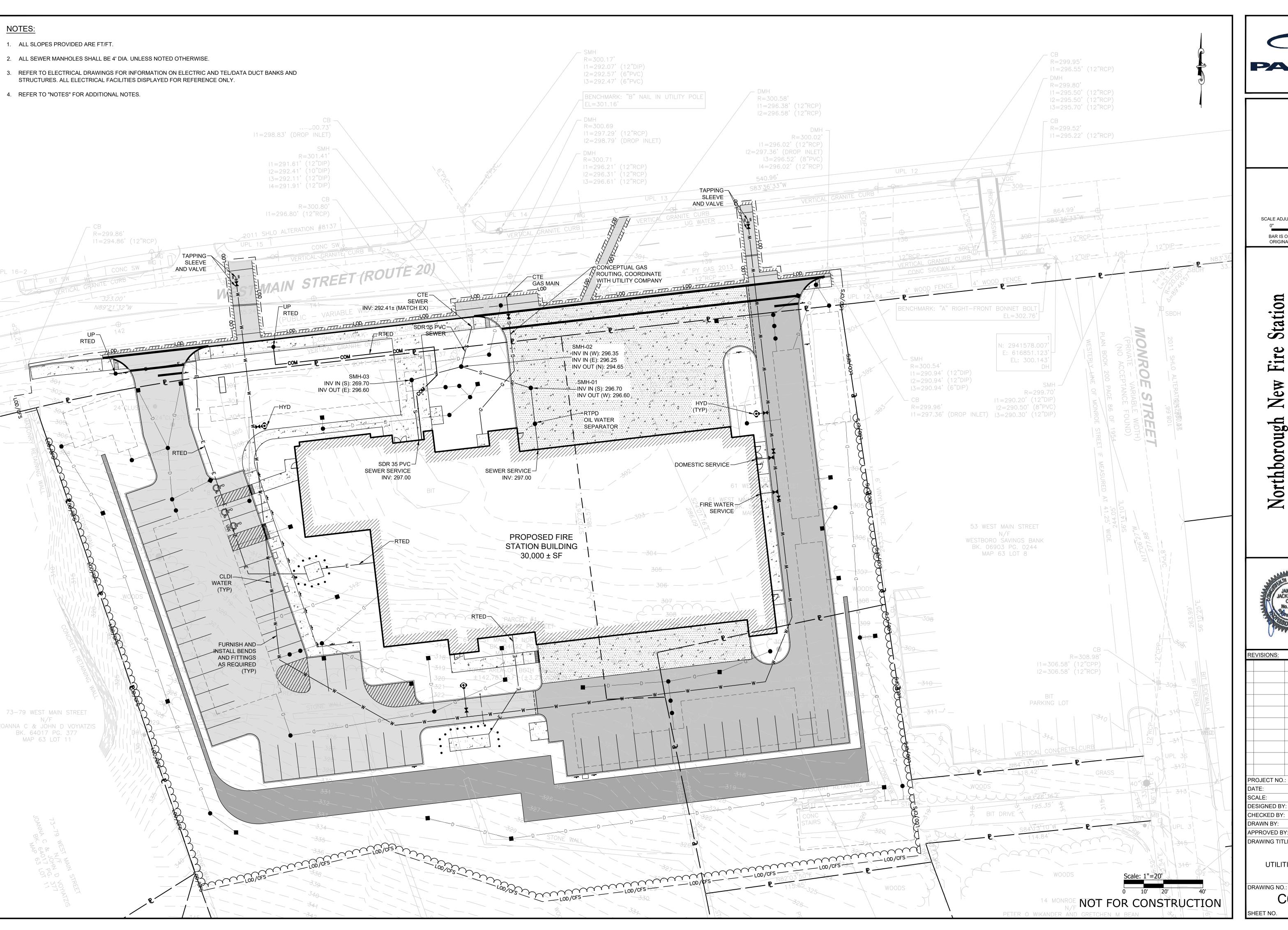


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VING TITLE:							
DRAINAGE PLAN							

DRAWING NO.:

C5.0

SHEET NO. 8 OF





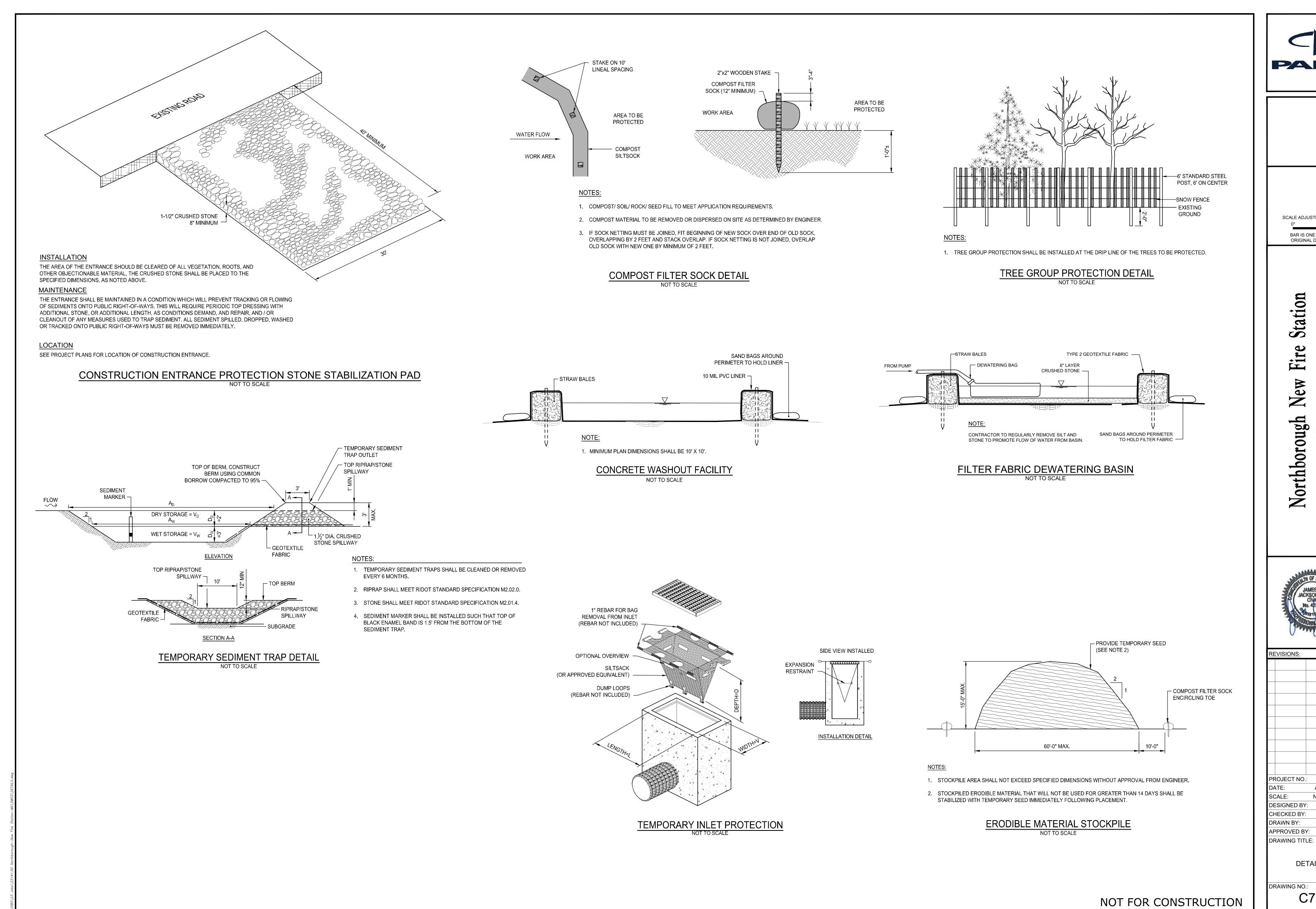
SCALE ADJUSTMENT GUIDE BAR IS ONE INCH ON

ORIGINAL DRAWING

Station Fire rthborough

PROJECT NO.: 23141.00 APRIL 23, 2024 DESIGNED BY: CHECKED BY: DRAWN BY: APPROVED BY: DRAWING TITLE: UTILITIES PLAN

C6.0



PARE

SCALE ADJUSTMENT GUIDE

BAR IS ONE INCH ON ORIGINAL DRAWING

Station Fire

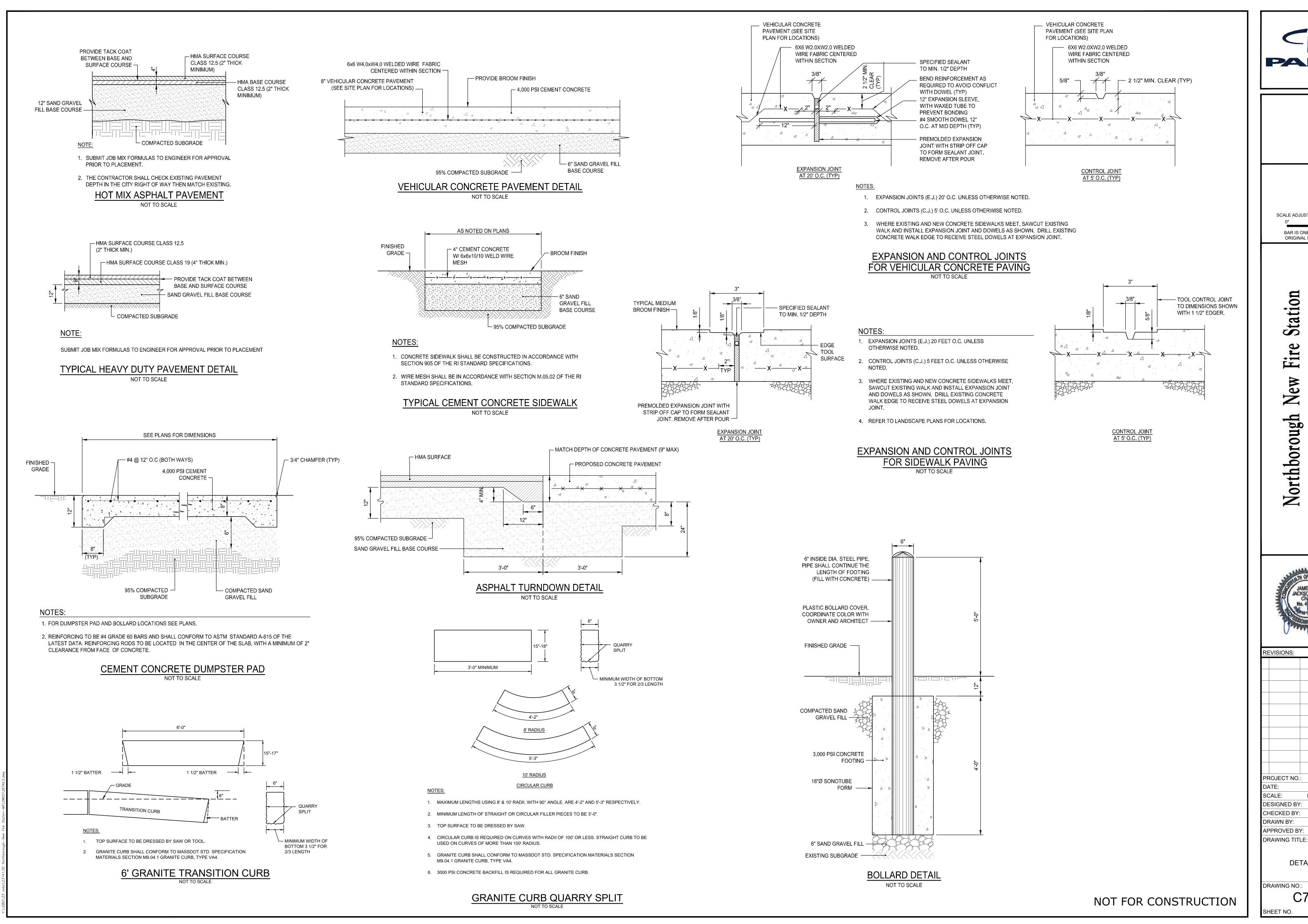
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REVISIONS: PROJECT NO.: 23141.00 APRIL 23, 2024 SCALE: NOT TO SCALE DESIGNED BY: CHECKED BY: DRAWN BY:

DETAILS 1

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SHEET NO. 10 OF



PARE

SCALE ADJUSTMENT GUIDE BAR IS ONE INCH ON ORIGINAL DRAWING

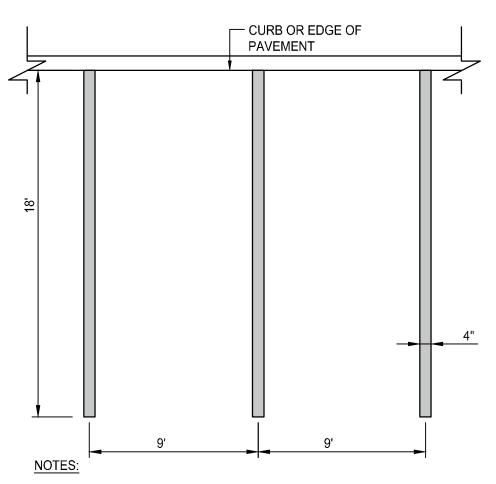
> Station ire لكم rthborough \geqslant

PROJECT NO.: 23141.00 APRIL 23, 2024 NOT TO SCALE **DESIGNED BY:** CHECKED BY:

DETAILS 2

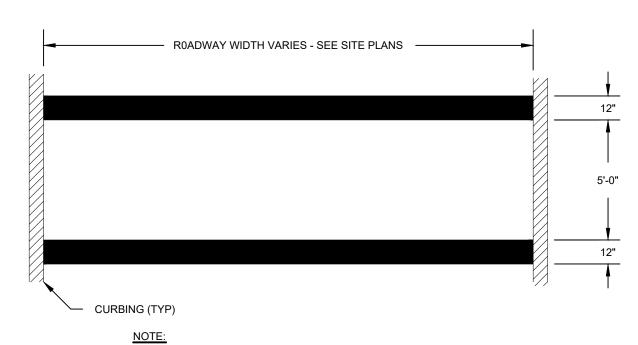
DRAWING NO.:

SHEET NO. 11 OF



- 1. COORDINATE PAVEMENT MARKING COLORS WITH PLANS.
- 2. ALL PARKING PAVEMENT MARKINGS SHALL BE EPOXY RESIN, CONFORMING TO THE SPECIFICATIONS.

TYPICAL PARKING STALL NOT TO SCALE



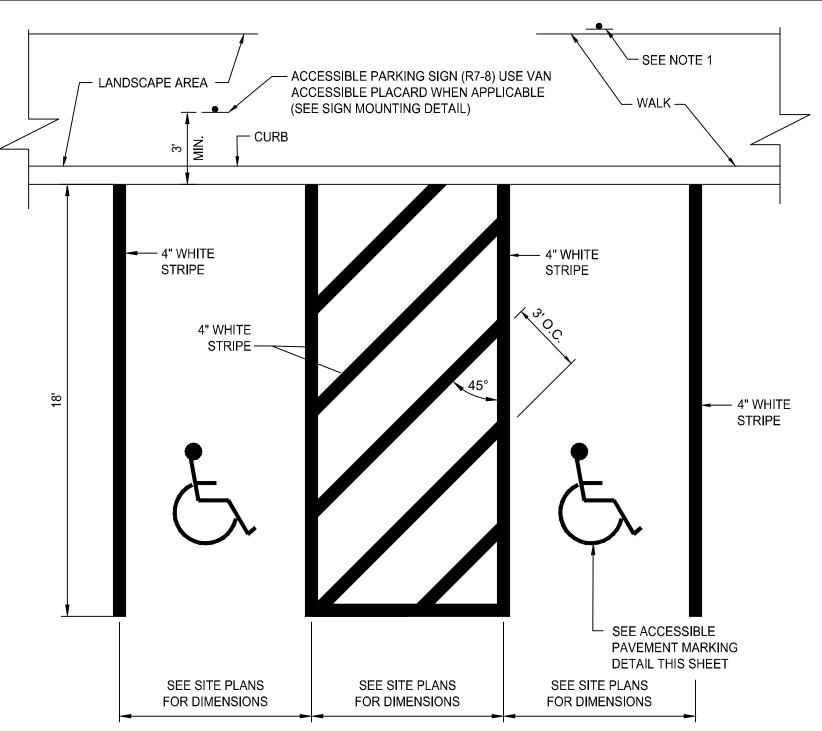
1. ALL LINE STRIPING TO BE 12" WIDE AND PAINTED WHITE.

CROSSWALK NOT TO SCALE

LEGEND	DESIGNATION	SIZE		
STOP	R1-1	(30" x 30")		
AUTHORIZED VEHICLES ONLY	R5-11	(30" x 24")		
RESERVED PARKING	R7-8	(12" x 18")		
VAN	R7-8P	(12" x 6")		
**	S1-1	(30" × 30")		
	W16-7P	(12" x 24")		
ACCESSIBLE EX CHARGING USE LAST	ACCESSIBLE EV CHARGING	(12" x 18")		
PUBLIC PARKING	PUBLIC PARKING	(30" x 30")		
	GENERIC CUSTOM SIGN	(12" x 18")		

- 1. SIGNS SHALL BE CONSTRUCTED OF TYPE III REFLECTORIZED SHEETING AND IN ACCORDANCE WITH MUTCD REQUIREMENTS, LATEST REVISION.
- 2. THE CONTRACTOR SHALL SUBMIT SAMPLE SIGNS TO THE OWNER FOR APPROVAL PRIOR TO FURNISHING.
- 3. LETTERS, COLOR, AND FONT FOR NON-STANDARD SIGNS SHALL BE SELECTED BY THE OWNER.
- 4. R7-8 AND R7-8P SHALL CONFORM TO ACCESSIBLE SIGN MOUNTING DETAIL.

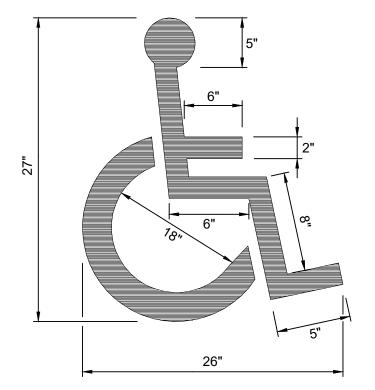
SIGN SCHEDULE



NOTES:

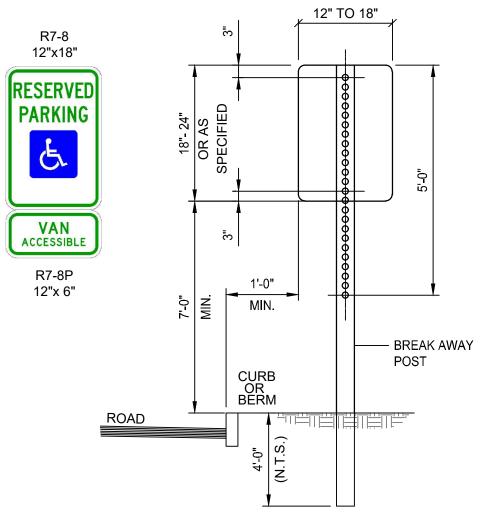
- 1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.
- 2. ALL PAVEMENT MARKINGS TO BE EPOXY RESIN.

ACCESSIBLE PARKING STALLS @ 90° NOT TO SCALE



ACCESSIBLE PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.

> ACCESSIBLE PAVEMENT MARKING NOT TO SCALE



NOTE: 5/16" x 2-1/2" GALVANIZED BOLTS & WASHERS STEEL SPECIFICATION - A.S.T.M. DESIGNATION A499-64 ZINC (HOT GALVANIZED) SPECIFIED BY-A.S.T.M. A 123. 3.00 [#] 0.484in ⁴ WT./FT. Mom. Ix-x 0.569in ³ Sec Mod x-x Mon ly-y Sec Mod y-y 0.886in ⁴ 0.506in ³

3 1/2"

PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° IN A LINE PARALLEL TO THE FLOW OF TRAFFIC.

NOTES:

- 1. ALL LAG SCREWS, BOLTS AND WASHERS SHALL BE GALVANIZED 5/16"x2 1/2" LONG UNLESS OTHERWISE NOTED.
- 2. WASHERS SHALL BE 0.07" THICK.
- 3. ALL SIGN COLORS, RADII AND BORDERS AS SPECIFIED IN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- 4. PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOT MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6" (1'-0" MIN.) FROM THE EDGE OF CURB FACE.
- 5. ALL ACCESSIBLE PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS AS SPECIFIED BY THE AMERICAN DISABILITIES ACT (ADA).
- 6. SIGN(S) SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
- 7. FOR ACCESSIBLE VAN SPACE USE SIGN AS DETAILED.
- 8. FOR ACCESSIBLE SPACE FOR AUTOMOBILES USE ONLY HANDICAPPED PARKING SIGN.

ACCESSIBLE SIGN MOUNTING NOT TO SCALE



SCALE ADJUSTMENT GUIDE BAR IS ONE INCH ON ORIGINAL DRAWING

Station Fire rthborough

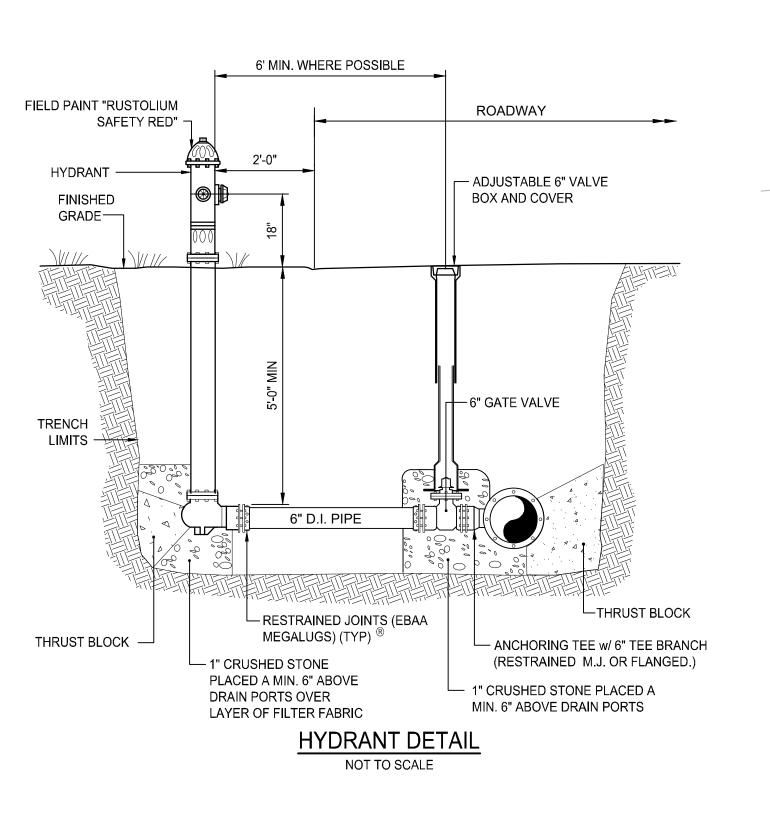
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DETAILS 3

DRAWING NO.:

SHEET NO. 12 OF



- CAST IRON VALVE BOX

COVER MARKED "WATER"

MUELLER A-2360

CONC. THRUST BLOCK

VALVE BOX DETAIL

NOT TO SCALE

- GATE VALVE (12" DIA. PIPE OR SMALLER) MJxMJ, OPEN RIGHT,

DUCTILE IRON

WATER MAIN

- TELESCOPING CAST IRON

VALVE BOX, VALVE NUT TO BE

PLUMB AND CENTERED IN BOX

- SEE TRENCH DETAIL FOR **BEDDING AND** BACKFILL REQUIREMENTS

- RAISED DIAMOND DESIGN

INSCRIBED INTO COVER

- WORD "SEWER"

FINISHED GRADE -

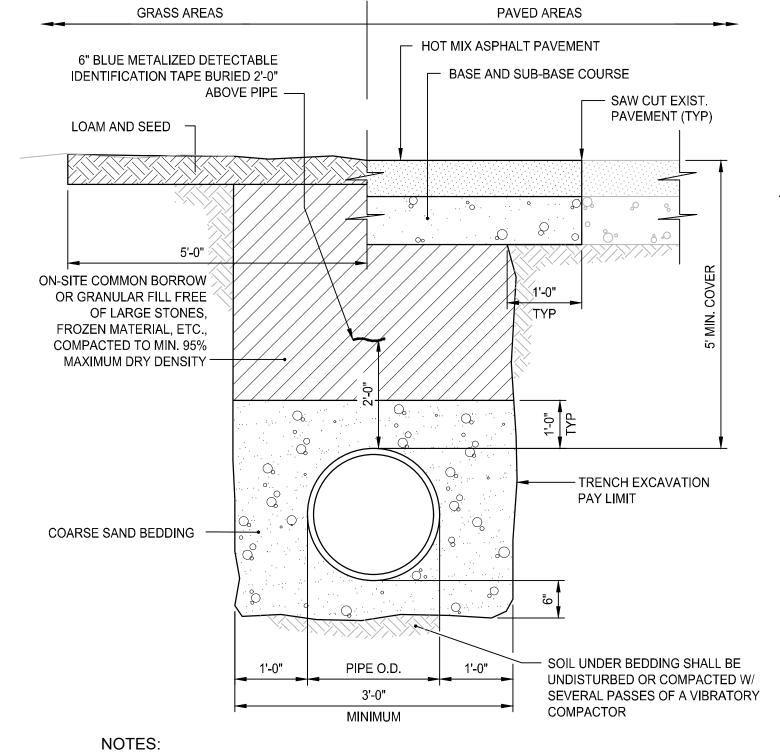
CONCRETE COLLAR 12"

BOTTOM OF TRENCH -

DIA. FOR GATE BOXES

AND 8" DIA. FOR CURB

STOP BOXES —



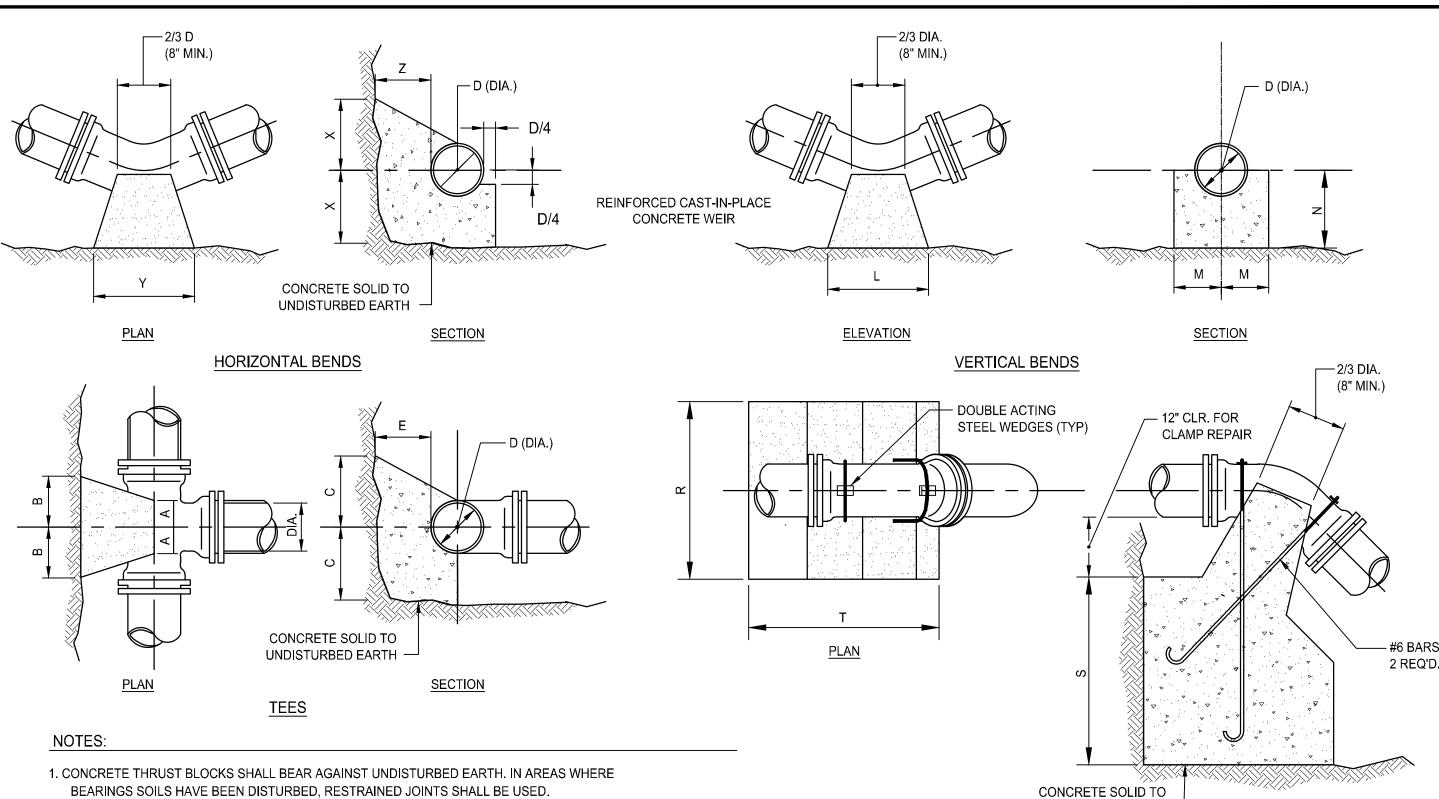
1. WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.

2. PIPE SHALL BE BEDDED IN 3/4-INCH CRUSHED STONE IF WITHIN GROUNDWATER.

TYPICAL WATER MAIN TRENCH DETAIL NOT TO SCALE

2. ALL FORCE MAIN BENDS, TEES, MAIN TAPS, AND END CAPS SHALL REQUIRE

A CONCRETE THRUST BLOCK.



CONC. ANCHORAGE

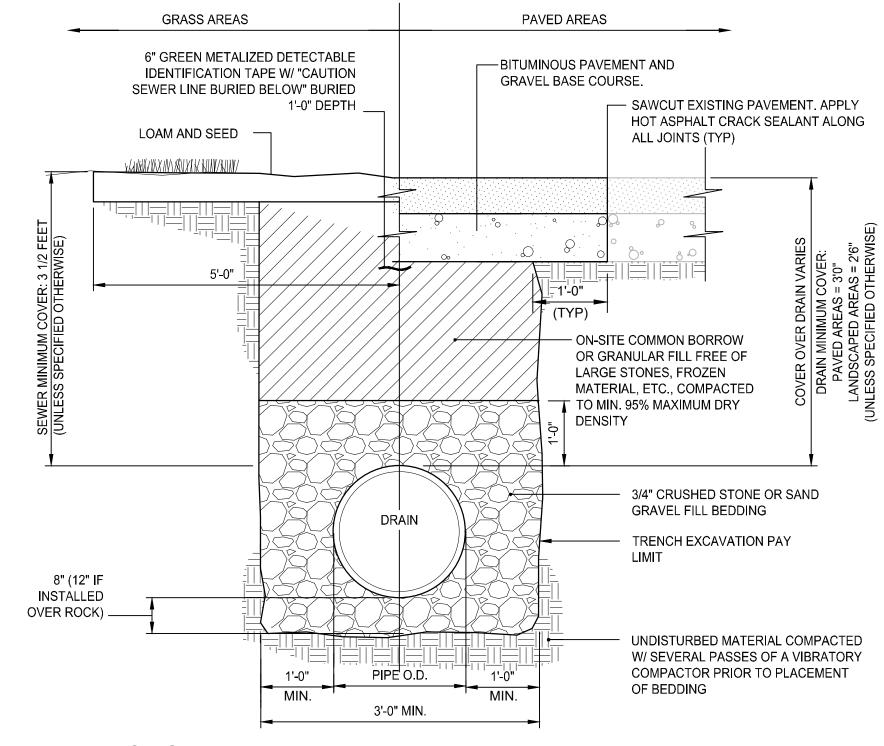
UNDISTURBED EARTH ─

ELEVATION

NOT FOR CONSTRUCTION

		TEES					HORTIZONTAL BENDS								VERTICAL BENDS						ANCHORAGES																									
		PIPE	SIZE-D	(DIA.)		DE																							PIPE	SIZE-D	(DIA.)		DEN	_		PIPE	SIZE-D	(DIA.)		DEN	_		PIPE	SIZE-D	(DIA.)	
	6"	8"	12"	16"	20"	BE	עט	6"	8"	12"	16"	20"	BEND		6"	8"	12"	16"	20"	BEND		6"	8"	12"	16"	20"																				
Α	8"	10"	1'-0"	1'-3"	1'-6"		Х	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"		L	1'-3"	1'-8"	2'-6"	3'-6"	4'-8"		R	2'-6"	3'-0"	4'-6"	5'-4"	6'-0"																				
В	8"	10"	1'-2"	1'-4"	1'-6"	1/8	Υ	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	1/8	М	7"	8"	11"	1'-4"	1'-6"	1/8	S	2'-6"	2'-9"	3'-6"	2'-6"	5'-6"																				
С	10"	1'-0"	1'-3"	1'-6"	1'-8"		Z	8"	10"	1'-2"	1'-4"	1'-6"		N	7"	8"	11"	1'-4"	1'-6"		Т	3'-0"	4'-0"	4'-9"	7'-0"	9'-6"																				
Е	8"	10"	1'-2"	1'-6"	1'-10"		Х	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"		L	9"	1'-0"	1'-9"	2'-6"	3'-0"		R	2'-0"	2'-8"	4'-0"	4'-6"	5'-0"																				
						1/16	Y	1'-0"	1'-4"	1'-6"	1'-9"	2'-6"	1/16	М	7"	7"	10"	1'-0"	1'-2"	1/16	S	1'-9"	2'-3"	2'-6"	3'-2"	3'-8"																				
							Z	8"	10"	1'-2"	1'-4"	1'-6"		N	7"	7"	8"	10"	1'-0"		Т	2'-6"	3'-4"	4'-0"	6'-0"	8'-6"																				
							Х	1'-0"	1'-0"	1'-0"	1'-2"	1'-4"		L	6"	8"	1'-0"	1'-4"	1'-9"		R	1'-6"	2'-0"	3'-0"	3'-8"	4'-3"																				
						1/32	Y	1'-0"	1'-0"	1'-2"	1'-4"	1'-6"	1/32	М	7"	7"	10"	1'-0"	1'-2"	1/32	S	1'-3"	1'-9"	2'-0"	2'-4"	2'-6"																				
							Z	8"	10"	1'-2"	1'-4"	1'-6"		N	7"	7"	8"	10"	1'-0"		Т	2'-0"	2'-6"	3'-0"	4'-6"	5'-9"																				

CONCRETE THRUST BLOCKS



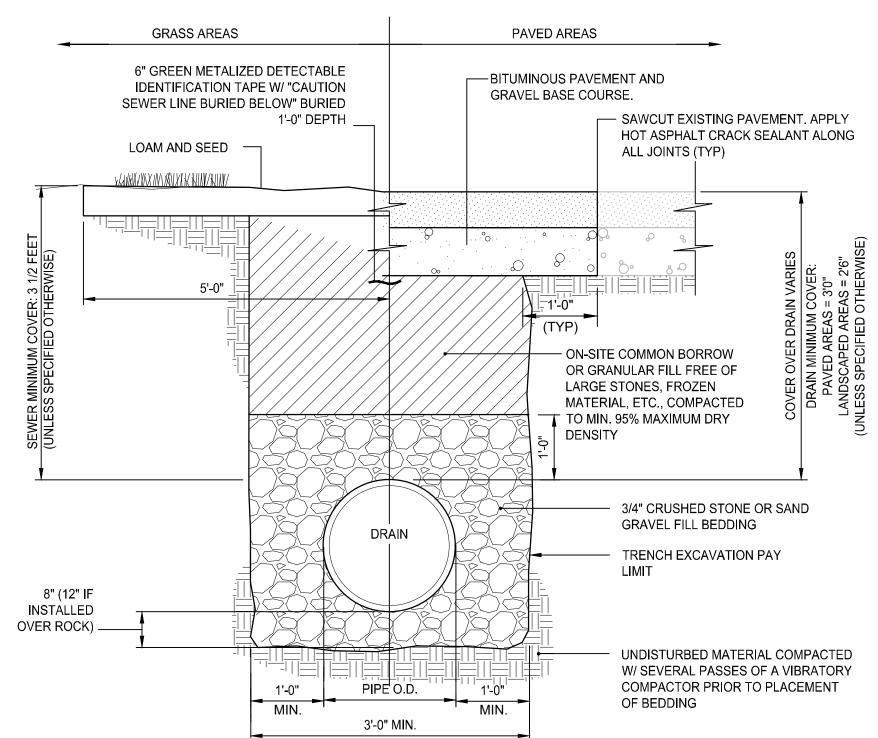
1. NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT.

2. COVER SHALL MEET H-20 LOADING CRITERIA.

NOTES:

SANITARY MANHOLE FRAME & COVER

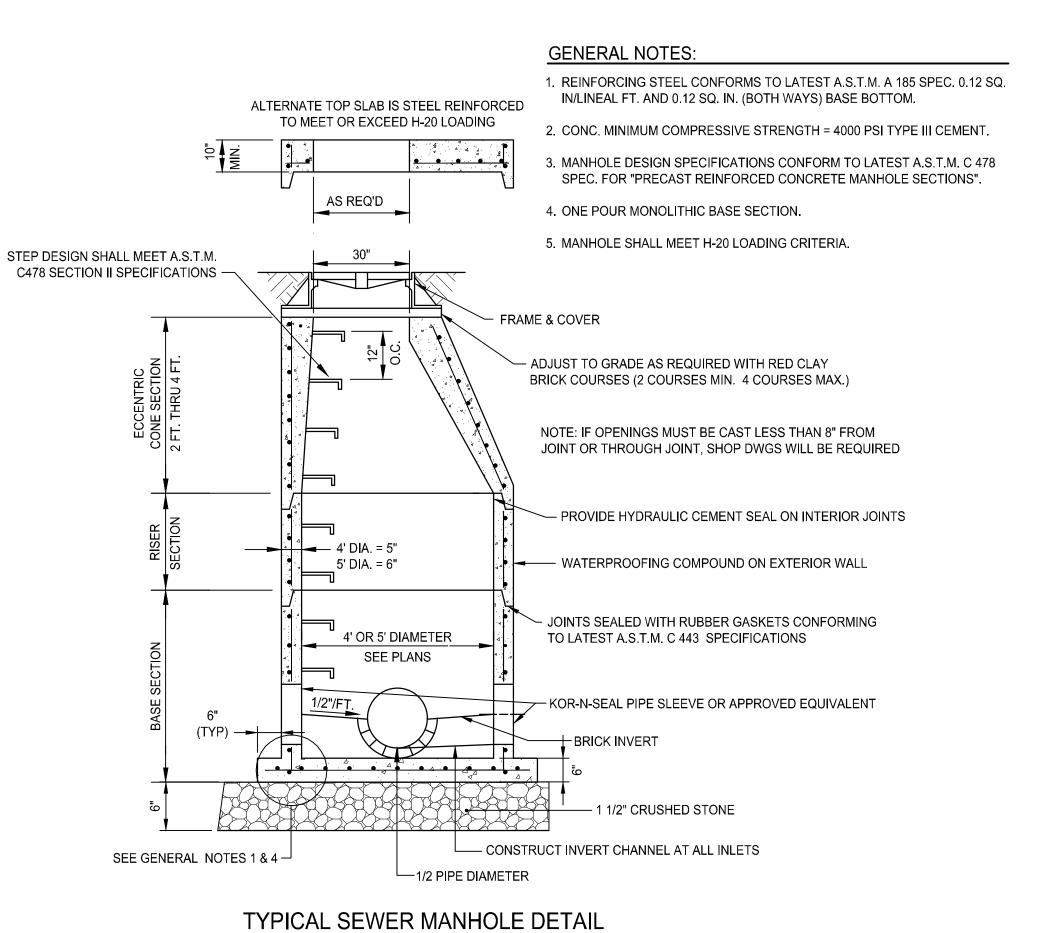
31 3/4"



1. WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.

2. 3/4" DIA. CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

> DRAIN/SEWER TRENCH DETAIL NOT TO SCALE





SCALE ADJUSTMENT GUIDE BAR IS ONE INCH ON ORIGINAL DRAWING

Station

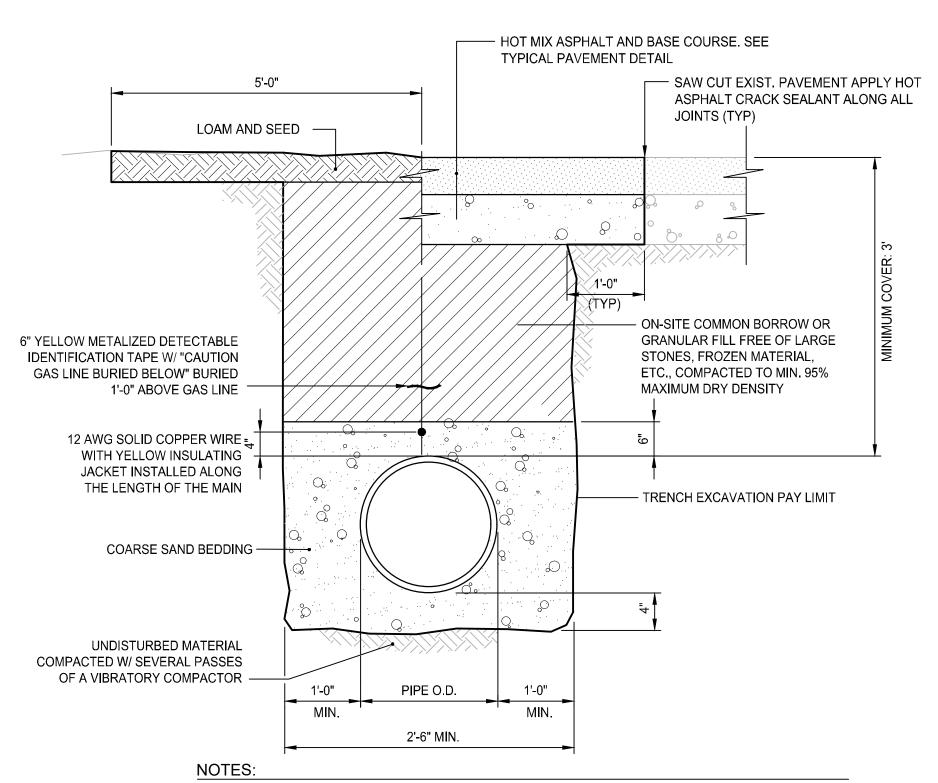
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REVISIONS:						
PROJECT NO.	23141.00					
DATE:	APRIL 23, 2024					
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APPROVED B	Y:					
DRAWING TIT	LE:					
DETAILS 4						

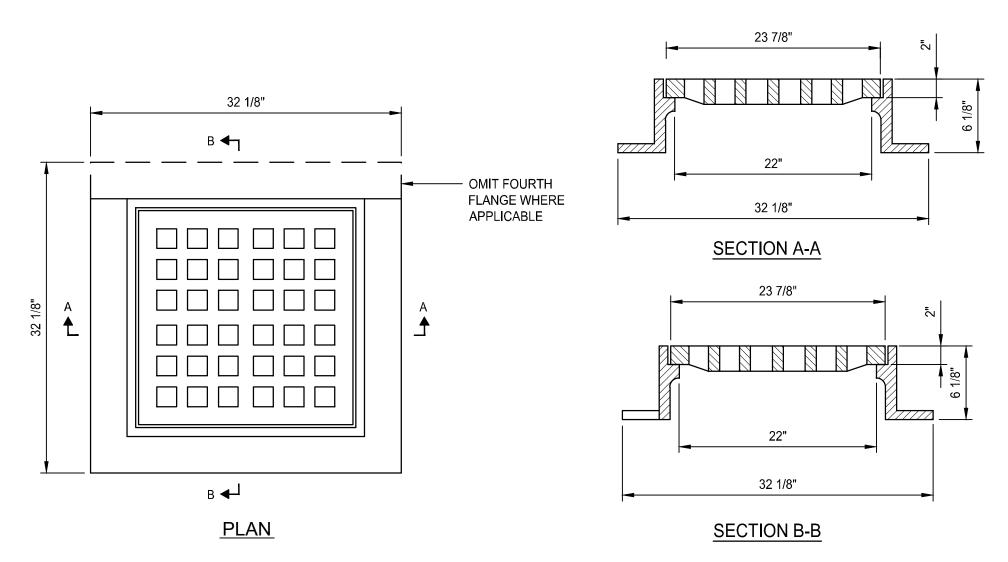
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SHEET NO. 13 OF



- 1. WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
- 2. WHERE A SLEEVE IS INSTALLED, A TRACING WIRE SHALL BE INSTALLED OUTSIDE OF SLEEVE.
- 3. GAS TRENCH SHALL BE COORDINATED WITH REQUIREMENTS OF THE GAS COMPANY PRIOR TO COMMENCING WORK.

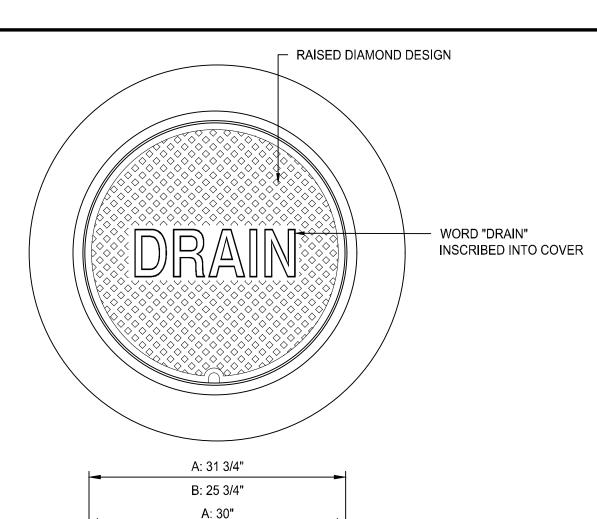
GAS TRENCH DETAIL NOT TO SCALE

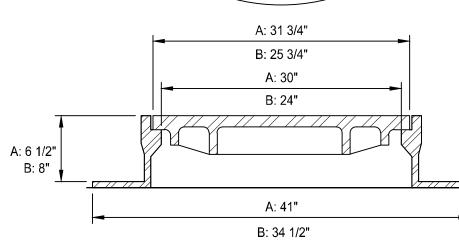


- NEENAH FOUNDRY R-3405-A OR APPROVED EQUIVALENT.
- 2. FRAME AND GRATE SHALL MEET H-20 LOADING CRITERIA.
- **GENERAL NOTES:**
- 1. REINFORCING STEEL CONFORMS TO LATEST A.S.T.M. A 185 SPEC. 0.12 SQ. IN/LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM
- 2. CONC. MINIMUM COMPRESSIVE STRENGTH = 4000 PSI TYPE III CEMENT.
- 3. MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C 478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
- 4. PROVIDE ONE POUR 6" THICK REINFORCED MONOLITHIC BASE SECTION.
- 5. MANHOLE SHALL MEET H-20 LOADING CRITERIA.
- 6. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT
- 7. MANHOLES SHALL HAVE 6" THICK WALLS.

SQUARE CATCH BASIN FRAME & GRATE

NOT TO SCALE





1. ALL FRAMES AND COVERS SHALL MEET H-20 LOADING CRITERIA.

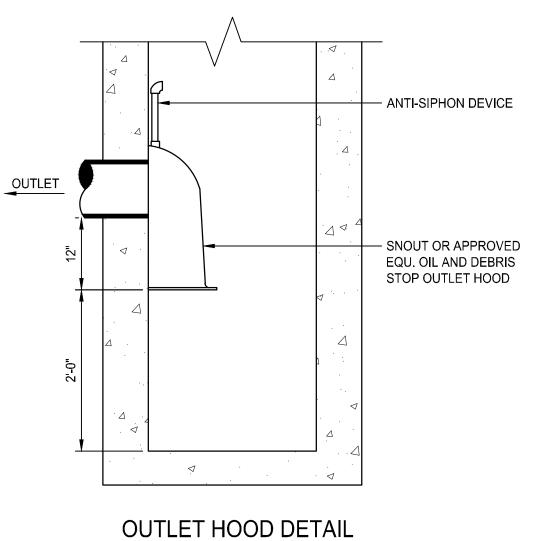
2. PROVIDE: A: 30" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT.

B: 24" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1556 OR APPROVED EQUIVALENT.

3. ALL DRAIN MANHOLES SHALL HAVE 24" DIA. DRAIN MANHOLE COVER UNLESS NOTED OTHERWISE.

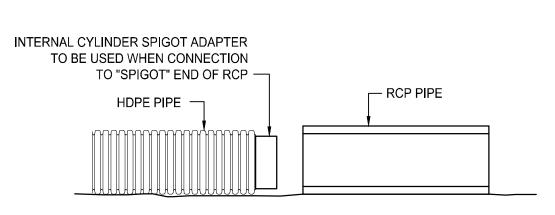
DRAIN MANHOLE FRAME & COVER

NOT TO SCALE



NOT TO SCALE

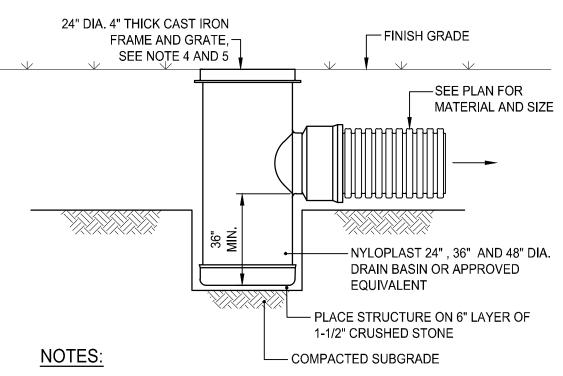
FINISHED GRADE MONWOVEN GEOTEXTILE TYPE 1 TO BE WRAPPED AROUND CONNECTION PIPE CONCRETE ENCASEMENT TO BE CAST IN PLACE AROUND — PROVIDE SPACER TO CONNECTION IF COVER OVER MATCH INVERTS JOINT IS GREATER THAN 6' —



NOTES:

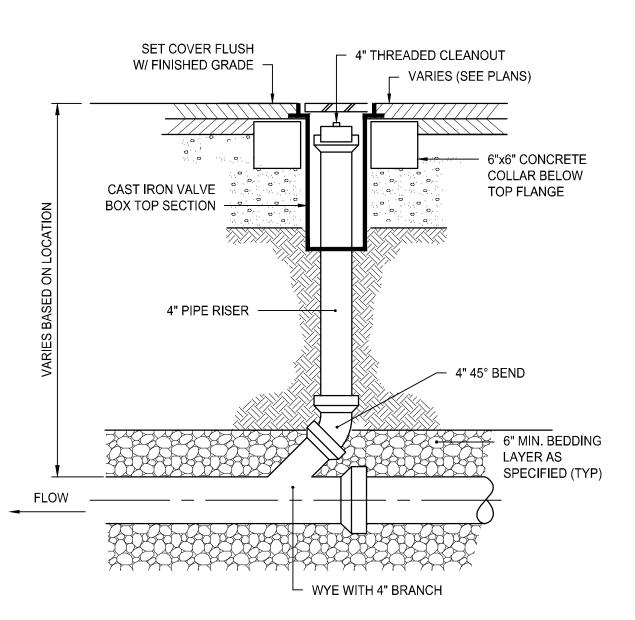
- 1. FOR USE WHERE HDPE PIPE CONNECTS TO PRECAST CONCRETE FLARED END SECTION.
- 2. INTERNAL CYLINDER ADAPTER TO BE WELDED TO HDPE, OUTSIDE DIAMETER TO BE INSERTED INTO INSIDE DIAMETER OF CONCRETE PIPE.
- 3. NON-WOVEN GEOTEXTILE TO BE WRAPPED AROUND CONNECTION WITH FULL SEAM OVERLAP TO PROVIDE FULL PROTECTION FROM SOIL INTRUSION.
- 4. CONNECTION TO BE MADE IN ACCORDANCE WITH PIPE MANUFACTURER'S REQUIREMENTS.
- 5. INTERNAL CYLINDER SPIGOT ADAPTER NOT REQUIRED IF HDPE IS CONNECTION TO "BELL" END OF RCP.

HDPE/RCP PIPE JOINT NOT TO SCALE



- 1. DRAIN BASIN SHALL BE CUSTOM MANUFACTURED FOR THE PROJECT WITH THE INLETS AND OUTLETS REQUIRED.
- 2. STRUCTURES SHALL BE CONSTRUCTED TO WITHSTAND LOADS IMPOSED BY CONSTRUCTION VEHICLES.
- 3. DRAIN BASIN SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE.
- 4. FRAME AND GRATE SHALL BE CONSTRUCTED OF DUCTILE IRON AND CONFORM TO ASTM A536 GRADE 70-50-05, UNLESS OTHERWISE SPECIFIED. PROVIDE NYLOPLAST 2499CGS OR APPROVED EQUIVALENT.
- 5. PROVIDE DOME GRATE AT AD-XX, AD-XX, AND AD-XX. PROVIDE NYLOPLAST 2499CGD OR APPROVED EQUIVALENT.
- 6. PROVIDE PEDESTRIAN GRATE AT AD-XX, AD-XX AND AD-XX. PROVIDE NYLOPLAST 2499CGP OR APPROVED EQUIVALENT. FRAME AND GRATE SHALL BE ADA COMPLIANT.

AREA DRAIN DETAIL NOT TO SCALE



CLEANOUT DETAIL NOT TO SCALE

SCALE ADJUSTMENT GUIDE BAR IS ONE INCH ON ORIGINAL DRAWING

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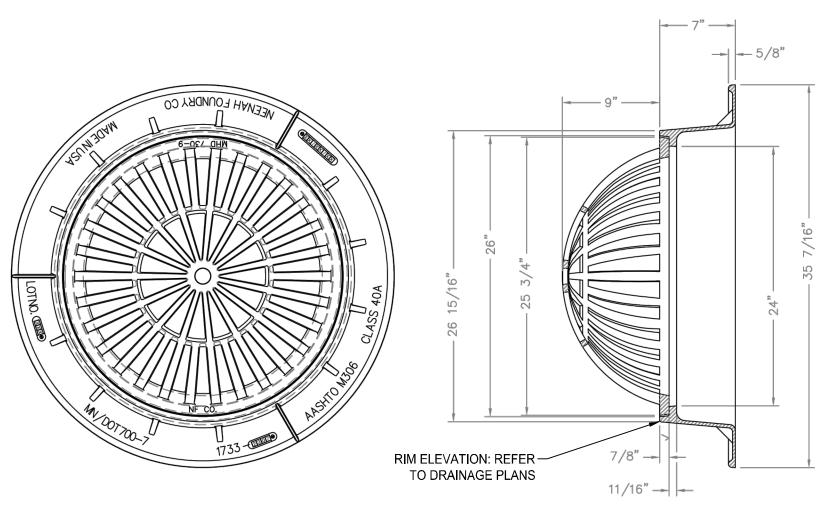


REVISIONS: 23141.00 PROJECT NO.: APRIL 23, 2024 SCALE: NOT TO SCALE DESIGNED BY: CHECKED BY: DRAWN BY: APPROVED BY: DRAWING TITLE: **DETAILS 5**

DRAWING NO.:

SHEET NO. 14 OF

NOT FOR CONSTRUCTION

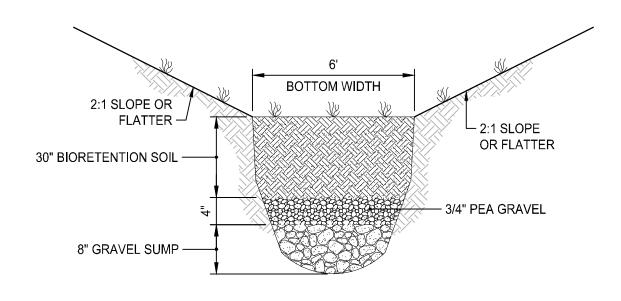


NOTES:

- 1. NEENA FOUNDRY R2561 OR APPROVED EQUIVALENT.
- 2. FRAME AND GRATE SHALL MEET H-20 LOADING CRITERIA.
- 3. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT.
- 4. MANHOLES SHALL HAVE 6" THICK WALLS.
- 5. PROVIDE DOME GRATE AT THE FOLLOWING CATCH BASINS: CB-XX, CB-XX, AND CB-XX.

DOME GRATE DETAIL

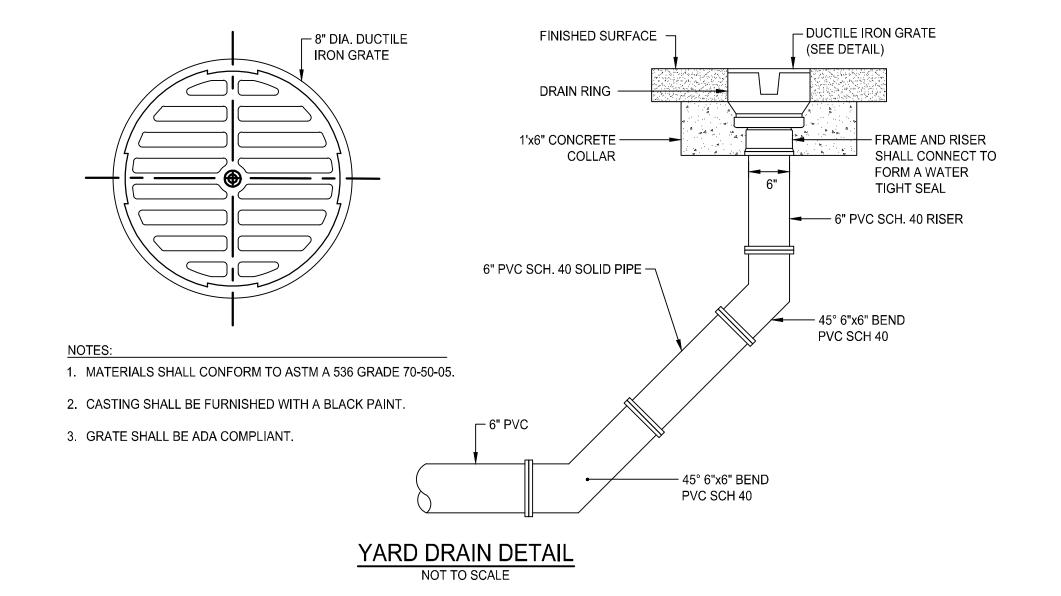
NOT TO SCALE



BIORETENTION SOIL: 65-68% SAND, 8-12% SILT, 0-2% CLAY, 23-25% ORGANIC MATTER (USDA LOAMY SAND OR SANDY LOAM)

MULCH: SHREDDED HARDWOOD (AGED 6-MONTHS)

TYPICAL DRY SWALE SECTION NOT TO SCALE





SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

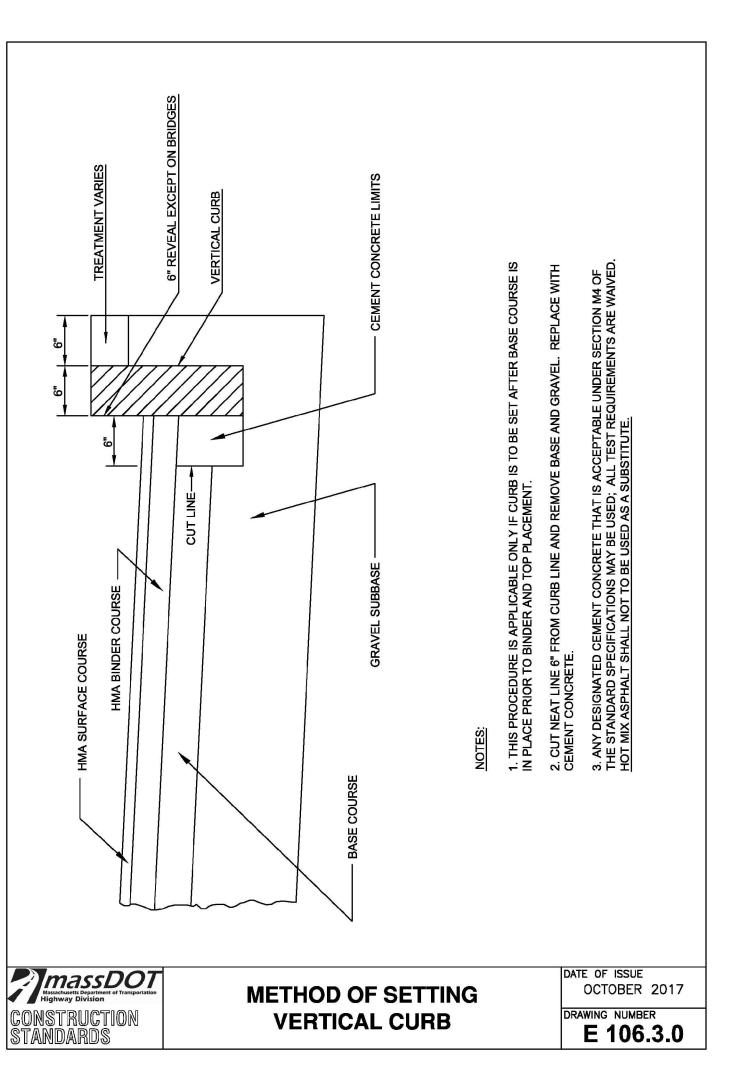
BAR IS ONE INCH ON ORIGINAL DRAWING

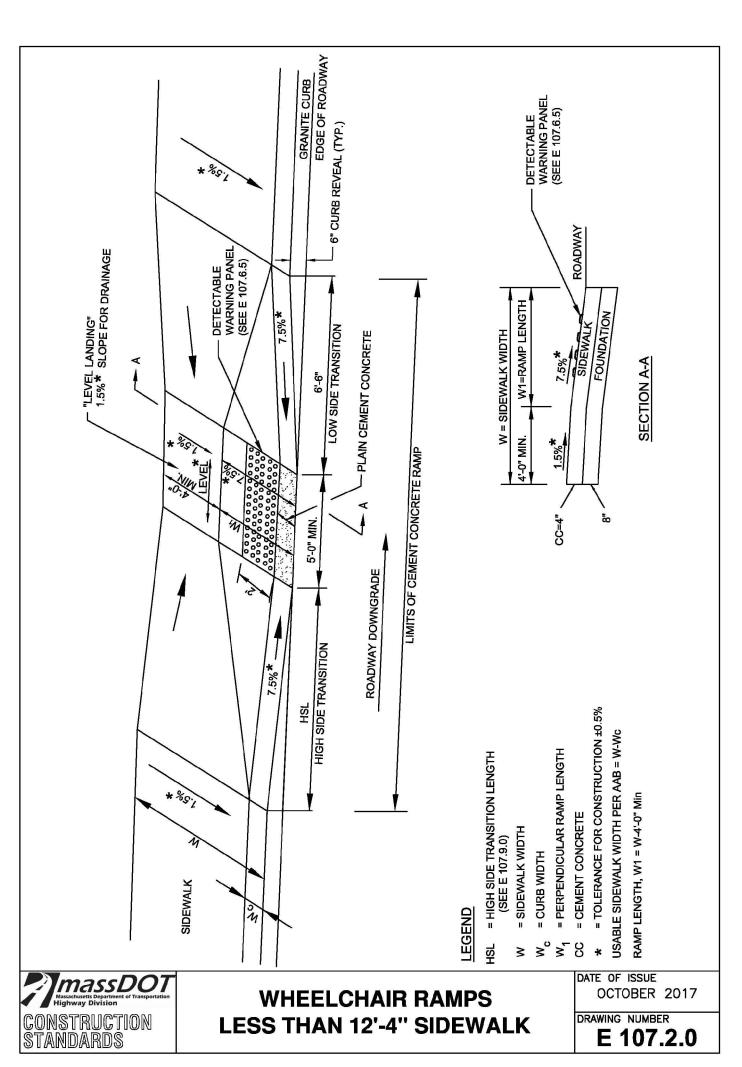
Northborough New Fire Station

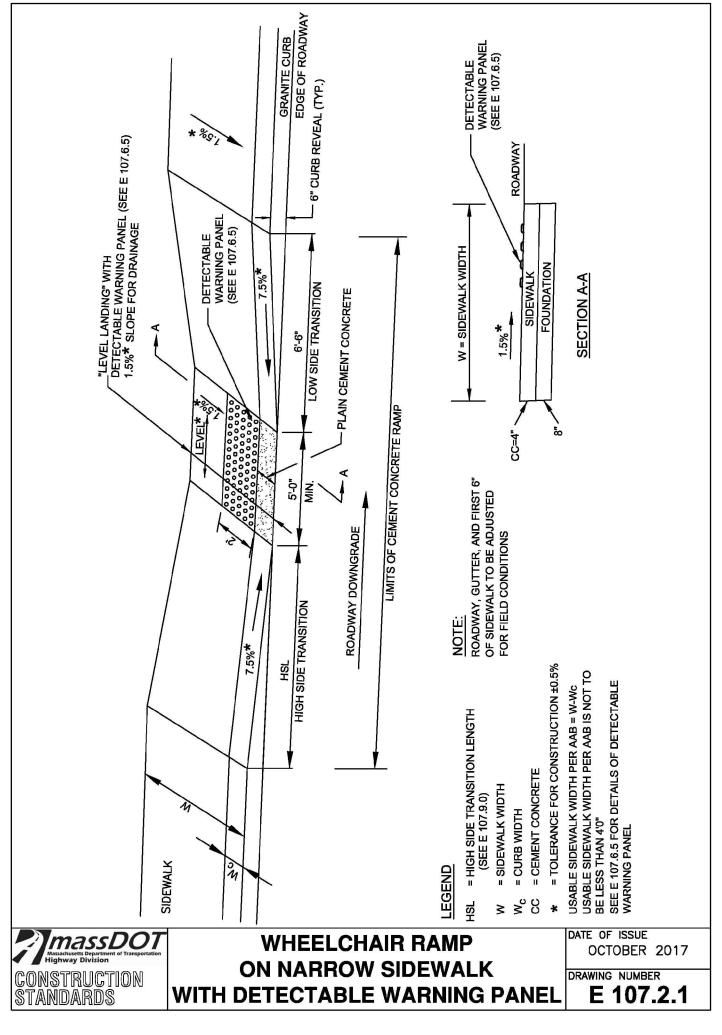


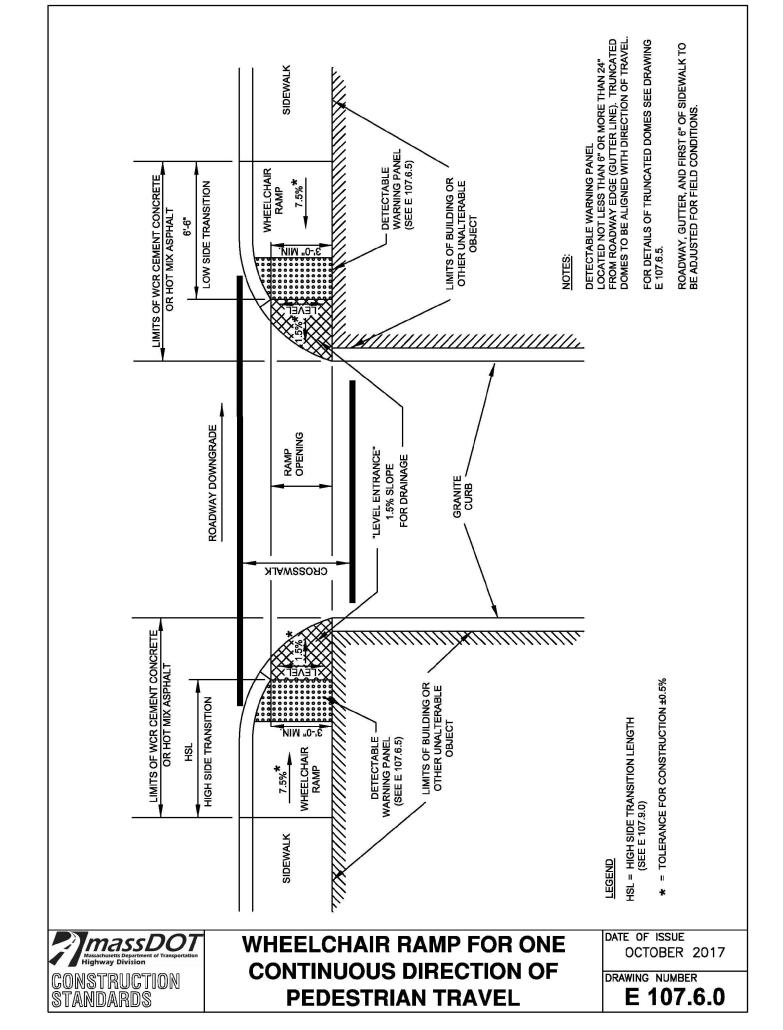
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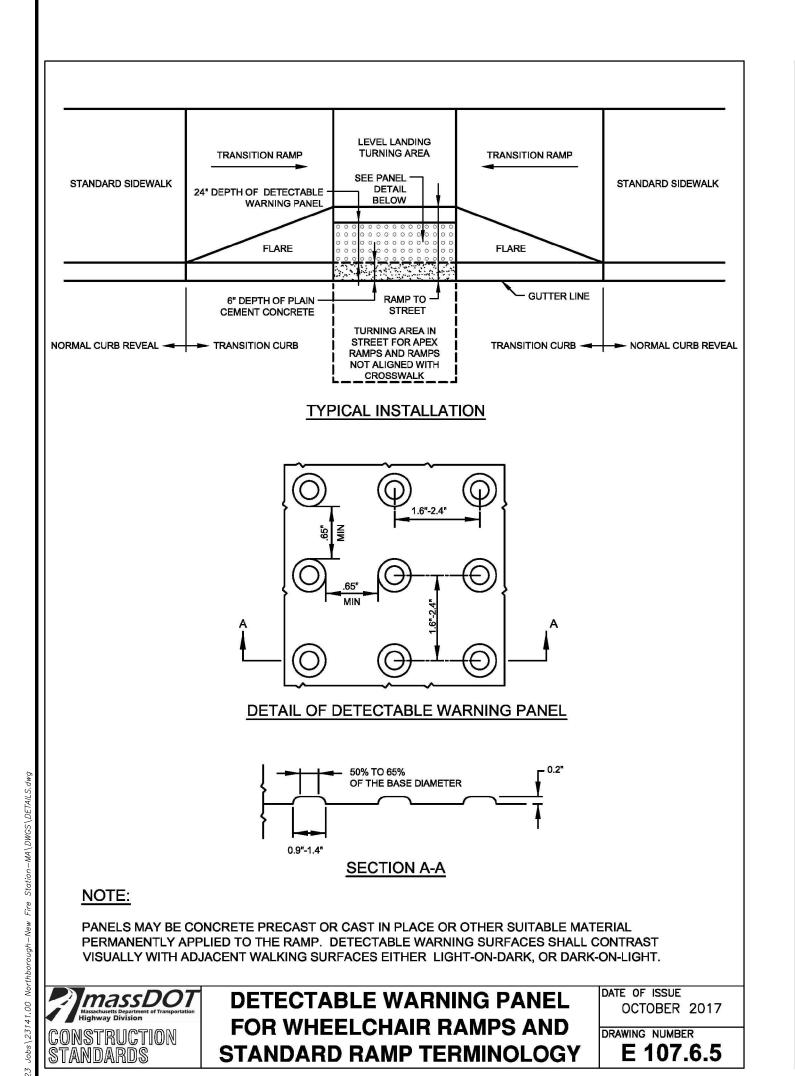
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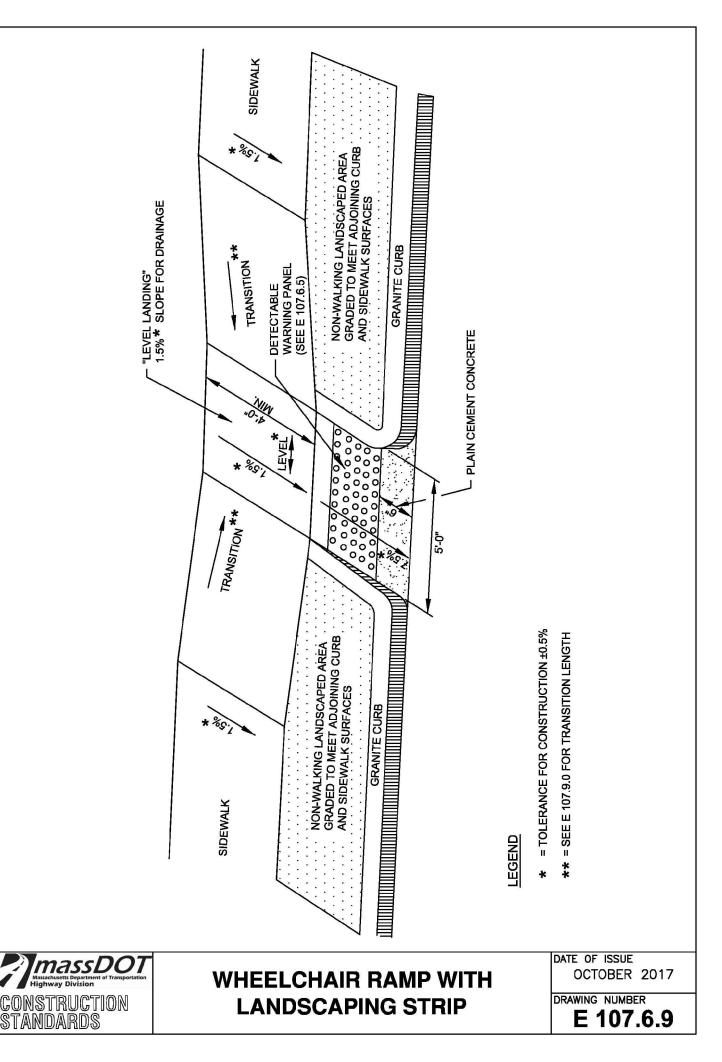


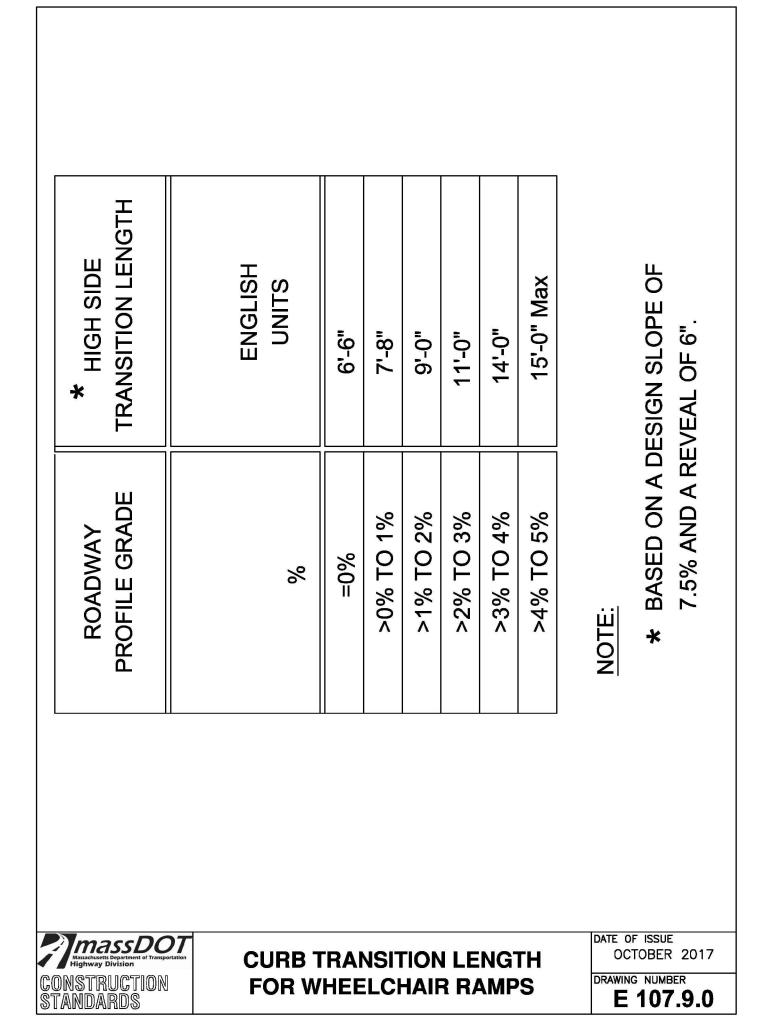


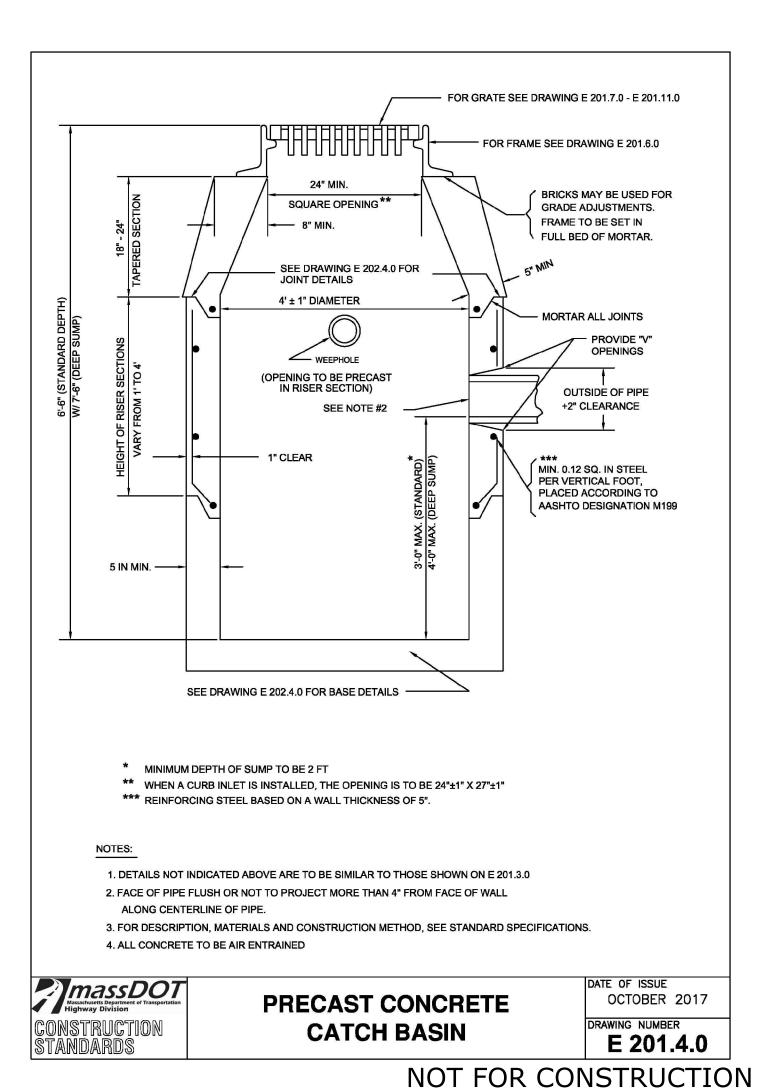














SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON ORIGINAL DRAWING

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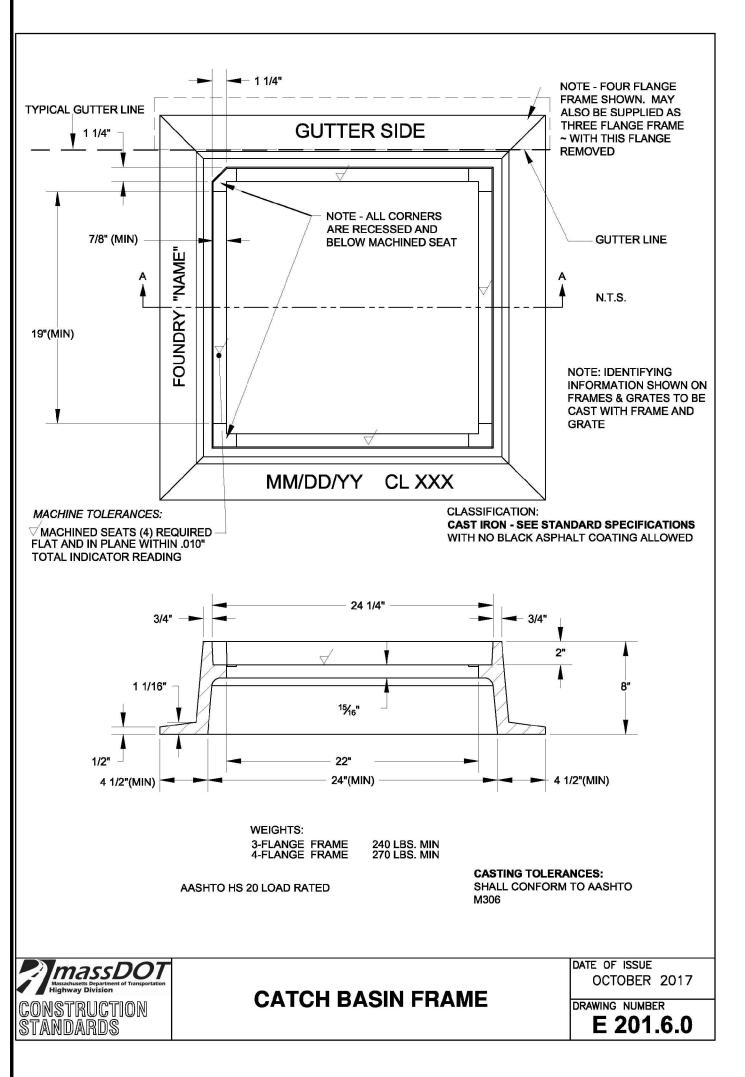
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DATE: APRIL 23, 2024
SCALE: NOT TO SCALE
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CHECKED BY:
DRAWN BY: AKL
APPROVED BY:
DRAWING TITLE:

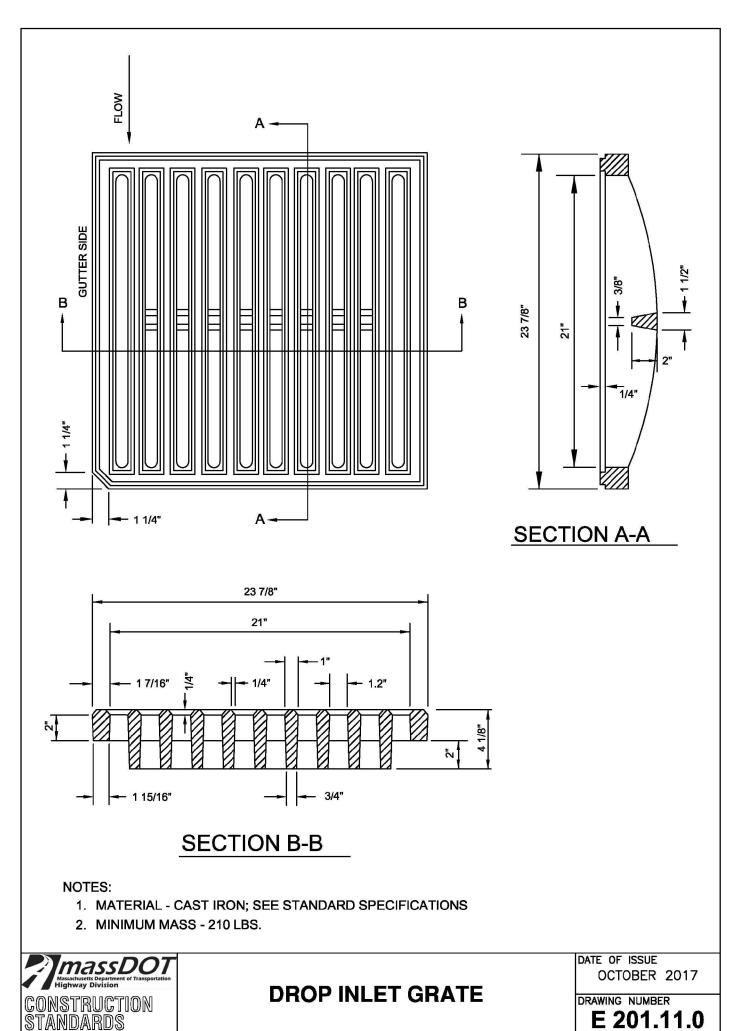
DETAILS 7

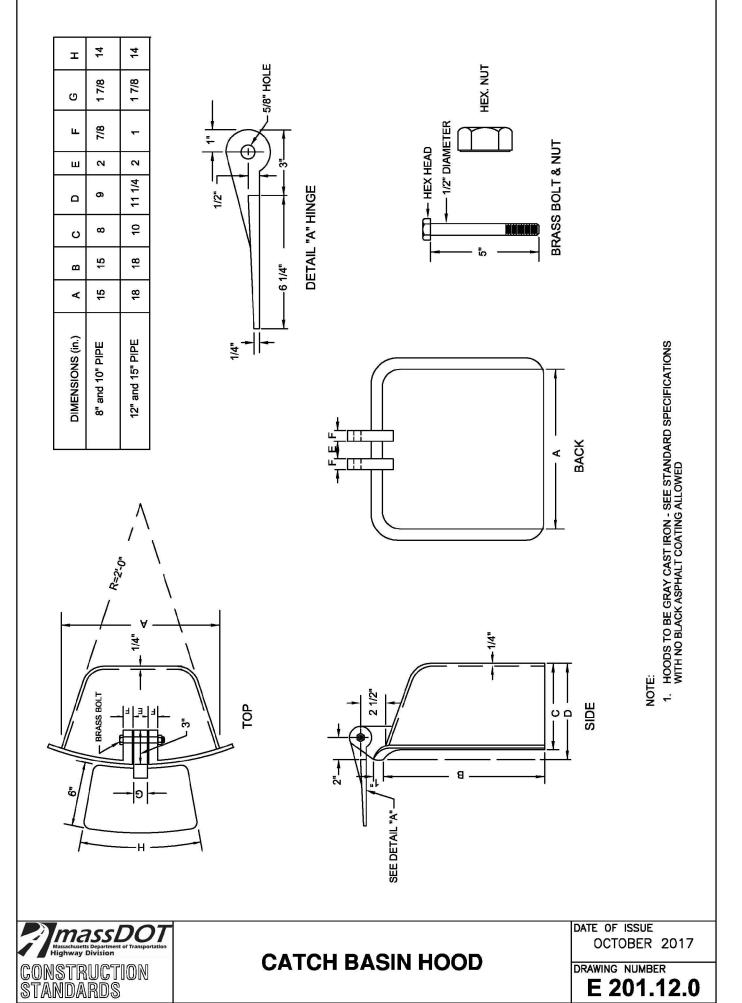
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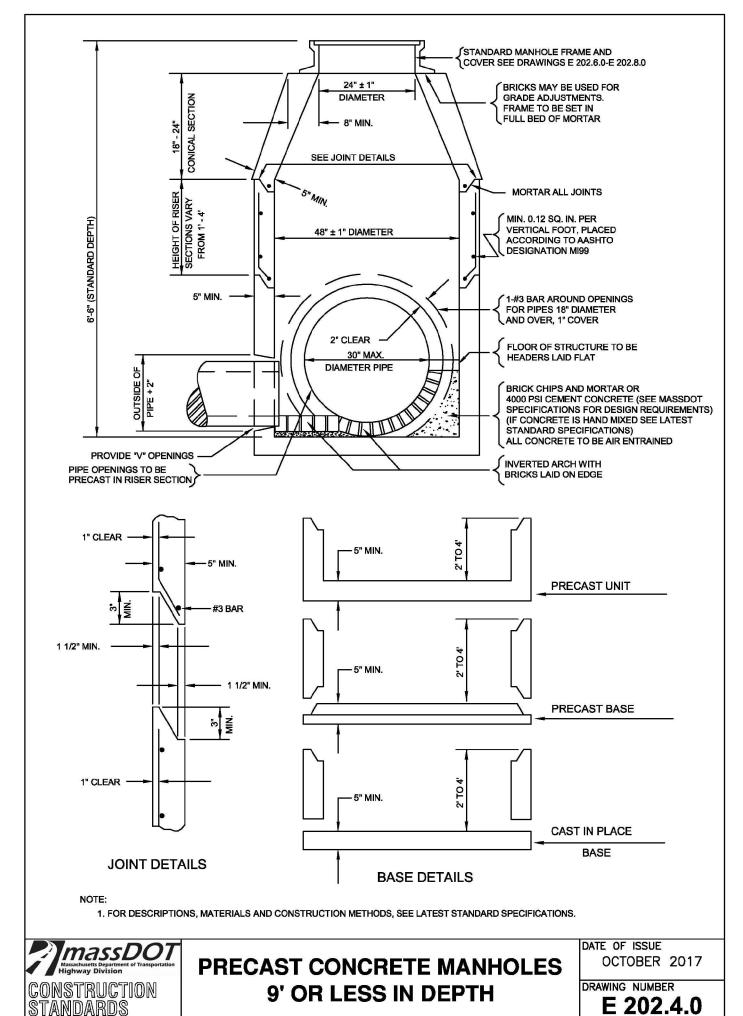
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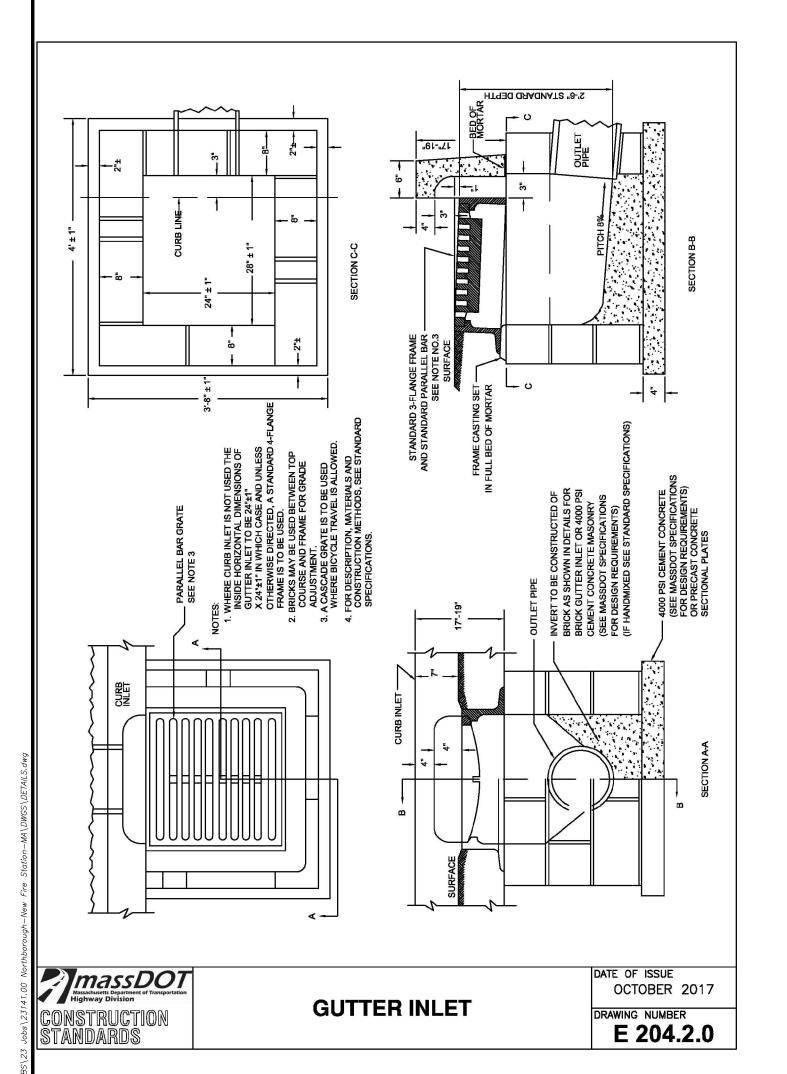
SHEET NO. 16 OF

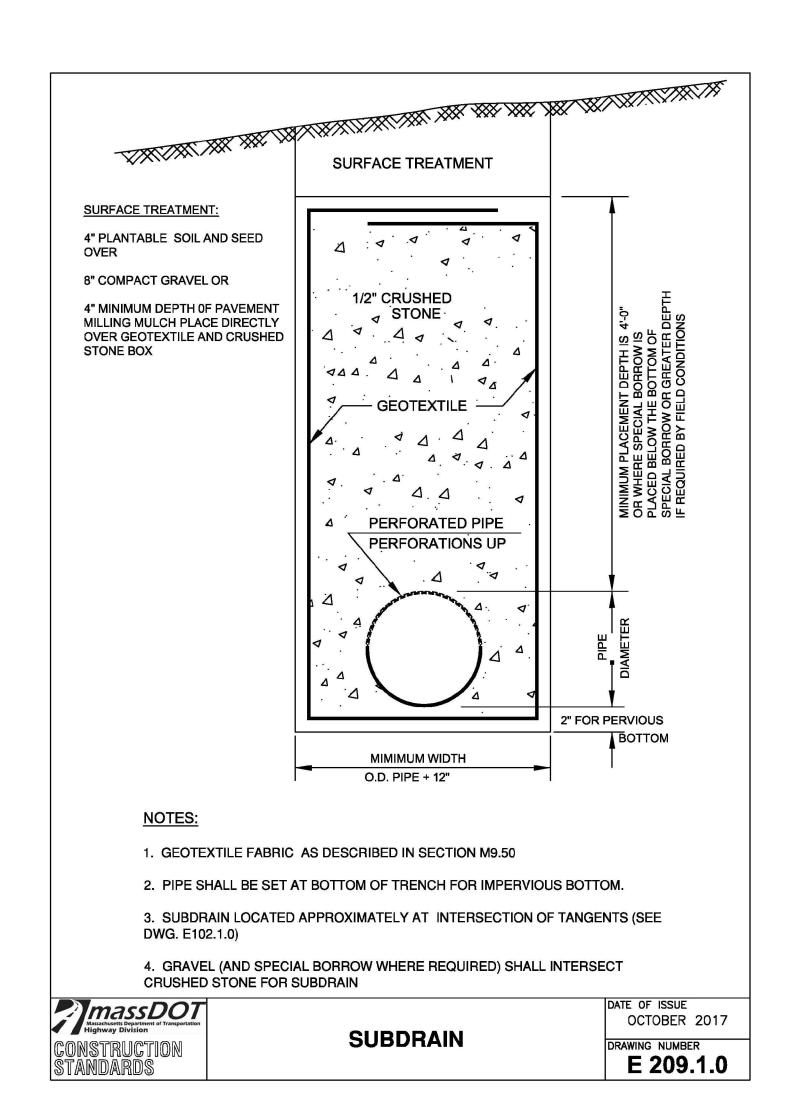


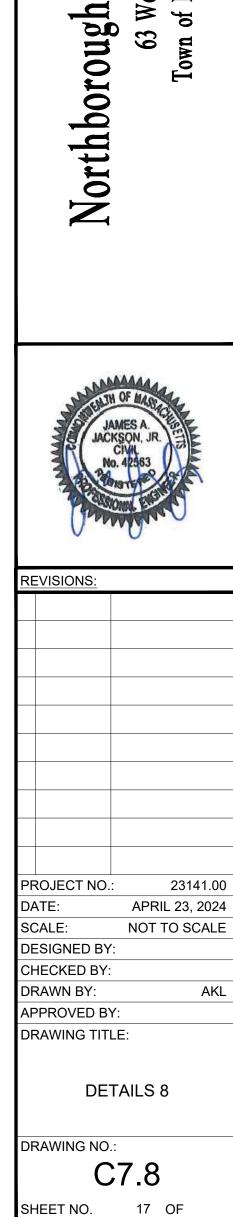










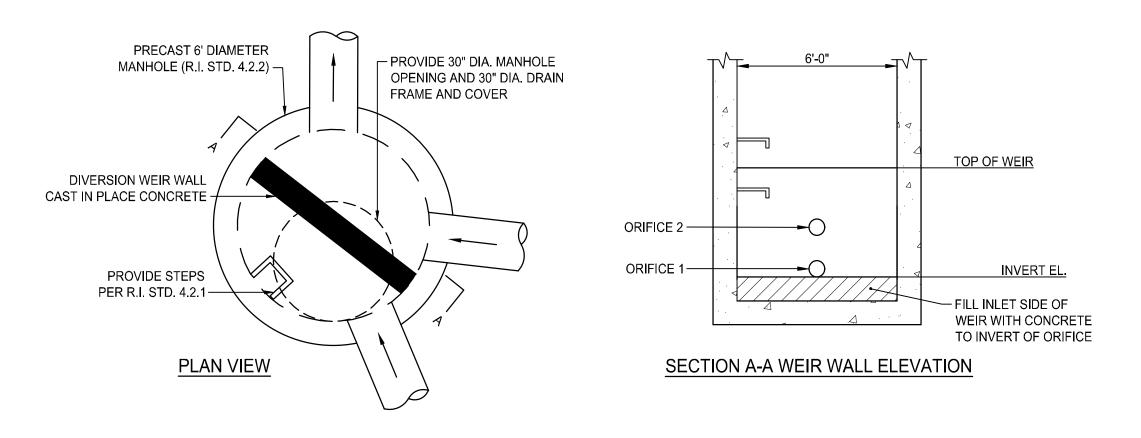


NOT FOR CONSTRUCTION



SCALE ADJUSTMENT GUIDE BAR IS ONE INCH ON ORIGINAL DRAWING

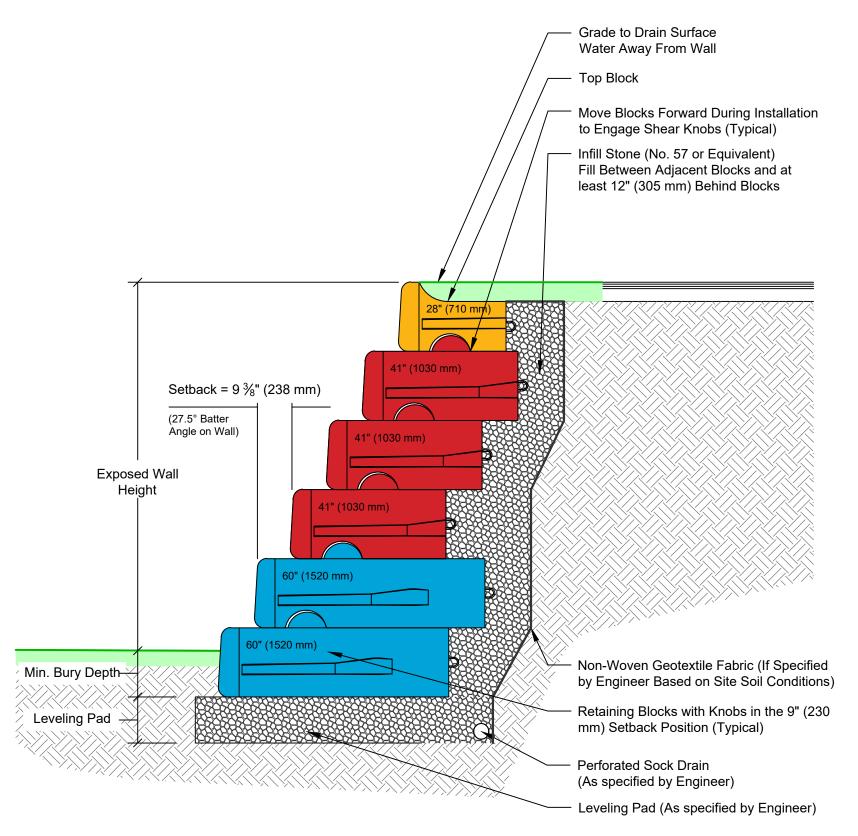
Station Fire ew , Μ΄ of



- 1. REFER TO DRAINAGE PLAN FOR INVERT ORIENTATIONS AND ELEVATIONS.
- 2. SEE BELOW SCHEDULE FOR WEIR WALL AND ORIFICE SCHEDULE.

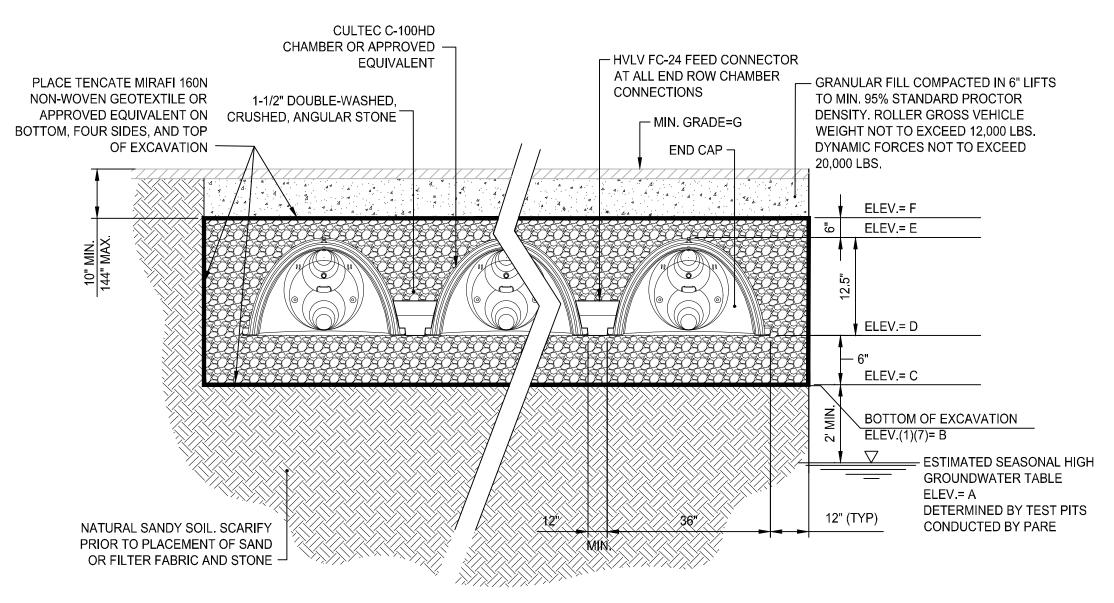
OUTLET CONTROL STRUCTURE (OCS) NOT TO SCALE

	TOP OF WEIR WALL	ORIFICE INVERT 1 (SIZE IN INCHES)	ORIFICE INVERT 2 (SIZE IN INCHES)
1	300.50	-	-
2	298,25	296.50 (5)	269.75 (6)
3	299.20	297.50 (6)	297.75 (6)
4	300.80	-	-
5	316.50	310.00 (6)	313.35 (5)
6	300.50	_	_



LARGE BATTER WALL SECTION NOT TO SCALE

- 1. MANUFACTURER SHALL BE REDI-ROCK INTERNATIONAL OR APPROVED EQUIVALENT.
- 2. CONTRACTOR SHALL SUBMIT MANUFACTURERS SHOP DRAWINGS, INCLUDING PLANS, ELEVATIONS, SECTIONS, AND DETAILS, INDICATING LAYOUT, DIMENSIONS, FOUNDATION, COVER, AND JOINTS. INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET AND OUTLET PIPE OPENINGS.
- 3. CONTRACTOR SHALL SUBMIT FINAL WALL DESIGN TO PLANNING BOARD FOR REVIEW AND COMMENT.
- 4. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO UNIT INSTALLATION.
- 5. RETAINING WALL SHALL BE REDI-ROCK "COBBLESTONE" STANDARD COLOR OR APPROVED EQUIVALENT.



NOTES:

UGIS SCHEDULE

1 | 296.50 | 298.50 | 298.50 | 299.00 | 300.05 | 300.55 | 301.38

300.05

299.00 | 299.50 | 300.55 | 301.05 | 301.88

298.50 299.00

297.00

299.00

1. CONTRACTOR SHALL TAKE PRECAUTION NOT TO COMPACT SUBGRADE.

- 3. CONTRACTOR SHALL NOTIFY ENGINEER (48 HRS MIN) PRIOR TO EXPOSING SUBGRADE TO SCHEDULE INSPECTION.
- 4. ONCE CONTRACTOR HAS SUBGRADE EXPOSED, THE ENGINEER SHALL BE CONTACTED FOR INSPECTION.
- 5. CONSTRUCTION OF THE SYSTEM SHALL NOT COMMENCE UNTIL ENGINEER INSPECTS SUBGRADE AND CRUSHED
- 6. CONTRACTOR SHALL INSTALL UNDERGROUND INFILTRATION SYSTEM PER MANUFACTURERS RECOMMENDATIONS.
- 7. REMOVE AND REPLACE TO NATURAL SOIL ELEVATION WITH C-33 SAND WRAPPED IN NON-WOVEN GEOTEXTILE

NOT TO SCALE

- 1. MANUFACTURER SHALL BE CULTEC, INC. OR APPROVED EQUIVALENT.
- 2. CONTRACTOR SHALL SUBMIT MANUFACTURERS SHOP DRAWINGS, INCLUDING PLANS, ELEVATIONS, SECTIONS, AND DETAILS, INDICATING LAYOUT, DIMENSIONS, FOUNDATION, COVER, AND JOINTS. INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET AND OUTLET PIPE OPENINGS.
- 3. CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS INCLUDING STORMWATER VOLUME SIZING, STRUCTURAL CALCULATIONS, AND BUOYANCY CALCULATIONS.
- 4. THE SYSTEM SHALL BE WATER TIGHT.
- 5. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO UNIT INSTALLATION.

2. CONTRACTOR SHALL NOT PLACE OR OPERATE MACHINERY ON SUBGRADE.

- STONE AND GRANTS PERMISSION TO PROCEED.
- FABRIC WHERE FILL IS PRESENT BELOW STONE BASE.

UNDERGROUND INFILTRATION SYSTEM DETAIL

C-100HD OR APPROVED EQUIVALENT



SCALE ADJUSTMENT GUIDE BAR IS ONE INCH ON ORIGINAL DRAWING

Station Fire New rthborough

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PPROVED BY:							
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DETAILS 9							

DRAWING NO.:

SHEET NO. 18 OF

1. DETAIL PROVIDED FOR GENERAL REFERENCE PURPOSES ONLY.

- 2. TOTAL COVER: MIN. 1'-1"
- 3. CONCRETE CHAMBER DESIGNED FOR AASHTO HS-20 HIGHWAY LOADING. MIN. SOIL PRESSURE 3,000 PSF.
- 4. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO INSTALLATION.
- SYSTEM SHALL BE WATERTIGHT.

UNDERGROUND CONCRETE VAULT DETENTION SYSTEM

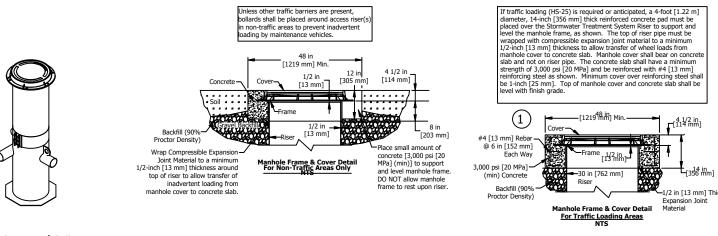
(STORMTRAP CONCRETE VAULT SYSTEM OR APPROVED EQUIVALENT)

- 1. MANUFACTURER SHALL BE AQUASHIELD, INC. OR APPROVED EQUIVALENT.
- 2. CONTRACTOR SHALL SUBMIT MANUFACTURERS SHOP DRAWINGS, INCLUDING PLANS, ELEVATIONS, SECTIONS, AND DETAILS, INDICATING LAYOUT, DIMENSIONS, FOUNDATION, COVER, AND JOINTS. INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET AND OUTLET PIPE OPENINGS.
- 3. CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS INCLUDING STORMWATER VOLUME SIZING, STRUCTURAL CALCULATIONS, AND BUOYANCY CALCULATIONS.
- 4. THE SYSTEM SHALL BE WATER TIGHT.

STEPPED OR SERRATED AND

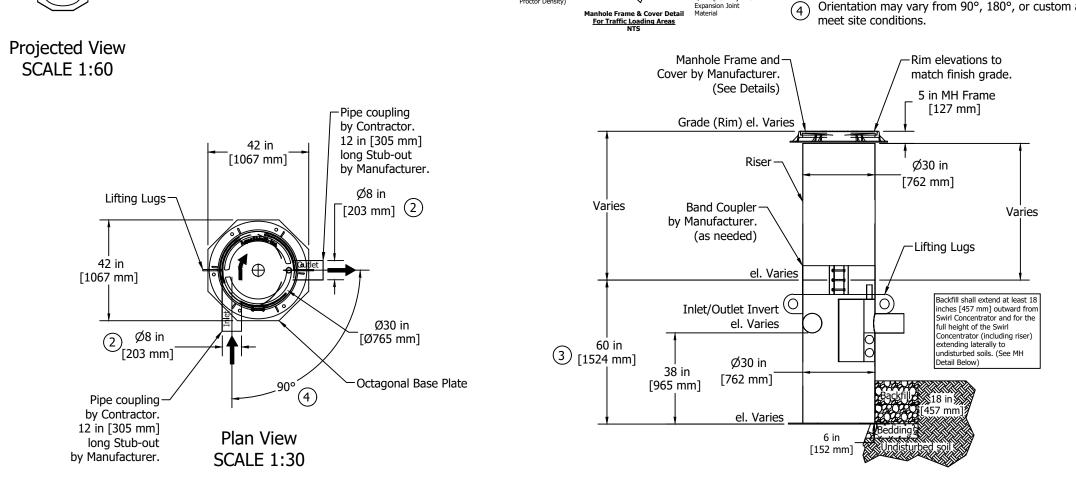
APPLICABLE OSHA REQUIREMENTS

- 5. CHAMBER SHALL BE DESIGNED FOR AASHTO HS-20 HIGHWAY LOADING. MIN. SOIL PRESSURE 4000 PSF.
- 6. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO UNIT INSTALLATION.



See Site Plan for actual system orientation. Approximate dry (pick) weight: 1000 lbs [500 kg].

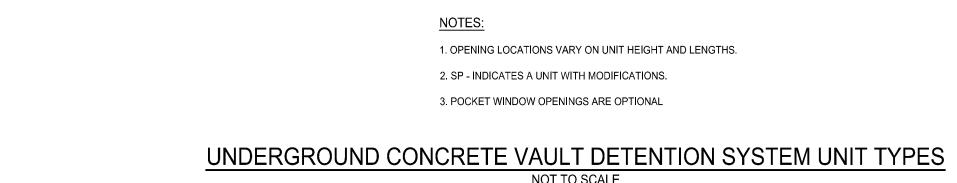
- As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [356 mm] thickness must be maintained.
- AS-2 inlet/outlet pipe size ranges from 4 in [102 mm] to 8 in [203 mm].
- AS-2 chamber height may vary from 48 in [1219 mm] to 60 in [1524 mm], depending on inlet/outlet pipe size.
- Orientation may vary from 90°, 180°, or custom angles to



Elevation View SCALE 1:30

WATER QUALITY UNIT (TSS)

NOT TO SCALE AQUA FILTER OR APPROVED EQUIVALENT DETAIL PROVIDED FOR GENERAL REFERENCE PURPOSES ONLY



1. MANUFACTURER SHALL BE AQUASHIELD, INC. OR APPROVED EQUIVALENT.

- (STORMTRAP CONCRETE VAULT SYSTEM OR APPROVED EQUIVALENT)
- 2. CONTRACTOR SHALL SUBMIT MANUFACTURERS SHOP DRAWINGS, INCLUDING PLANS, ELEVATIONS, SECTIONS, AND DETAILS, INDICATING LAYOUT, DIMENSIONS, FOUNDATION, COVER, AND JOINTS. INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET AND OUTLET PIPE OPENINGS.

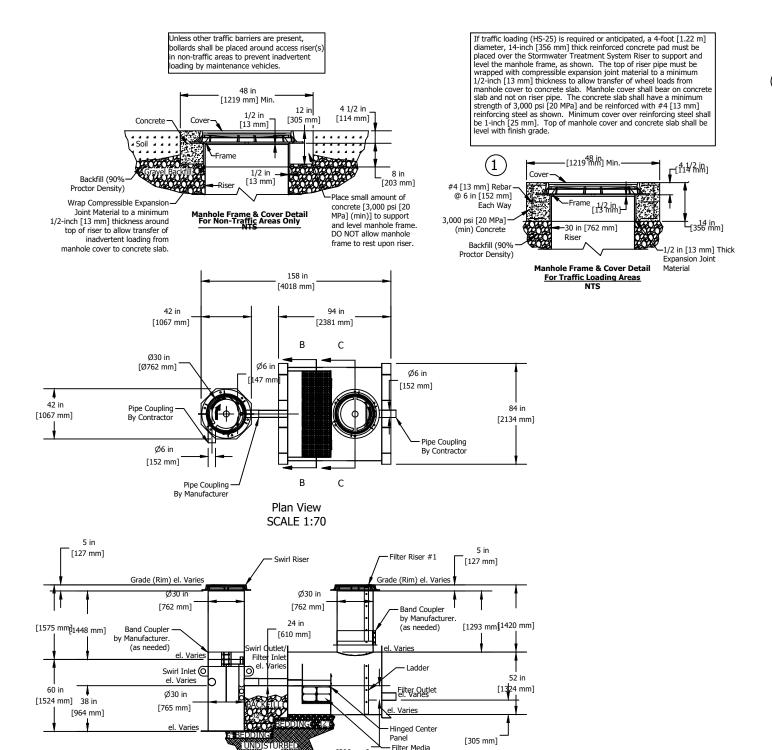
TYPE II

TYPE VII

- 3. CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS INCLUDING STORMWATER VOLUME SIZING, STRUCTURAL CALCULATIONS, AND BUOYANCY CALCULATIONS.
- 4. THE SYSTEM SHALL BE WATER TIGHT.

TYPE IV

- 5. CHAMBER SHALL BE DESIGNED FOR AASHTO HS-20 HIGHWAY LOADING, MIN. SOIL PRESSURE 4000 PSF.
- 6. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO UNIT INSTALLATION.

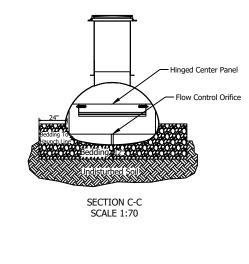


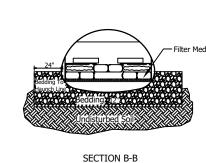
Elevation View SCALE 1:70

(1) As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [365 mm] thickness must be maintained.

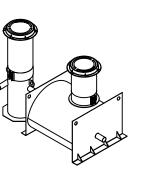
TYPE III

PANEL





SCALE 1:70



SCALE 1:100

WATER QUALITY UNIT (TSS AND PHOSPHORUS)

NOT TO SCALE AQUA FILTER OR APPROVED EQUIVALENT DETAIL PROVIDED FOR GENERAL REFERENCE PURPOSES ONLY

NOT FOR CONSTRUCTION



SCALE ADJUSTMENT GUIDE BAR IS ONE INCH ON ORIGINAL DRAWING

Station

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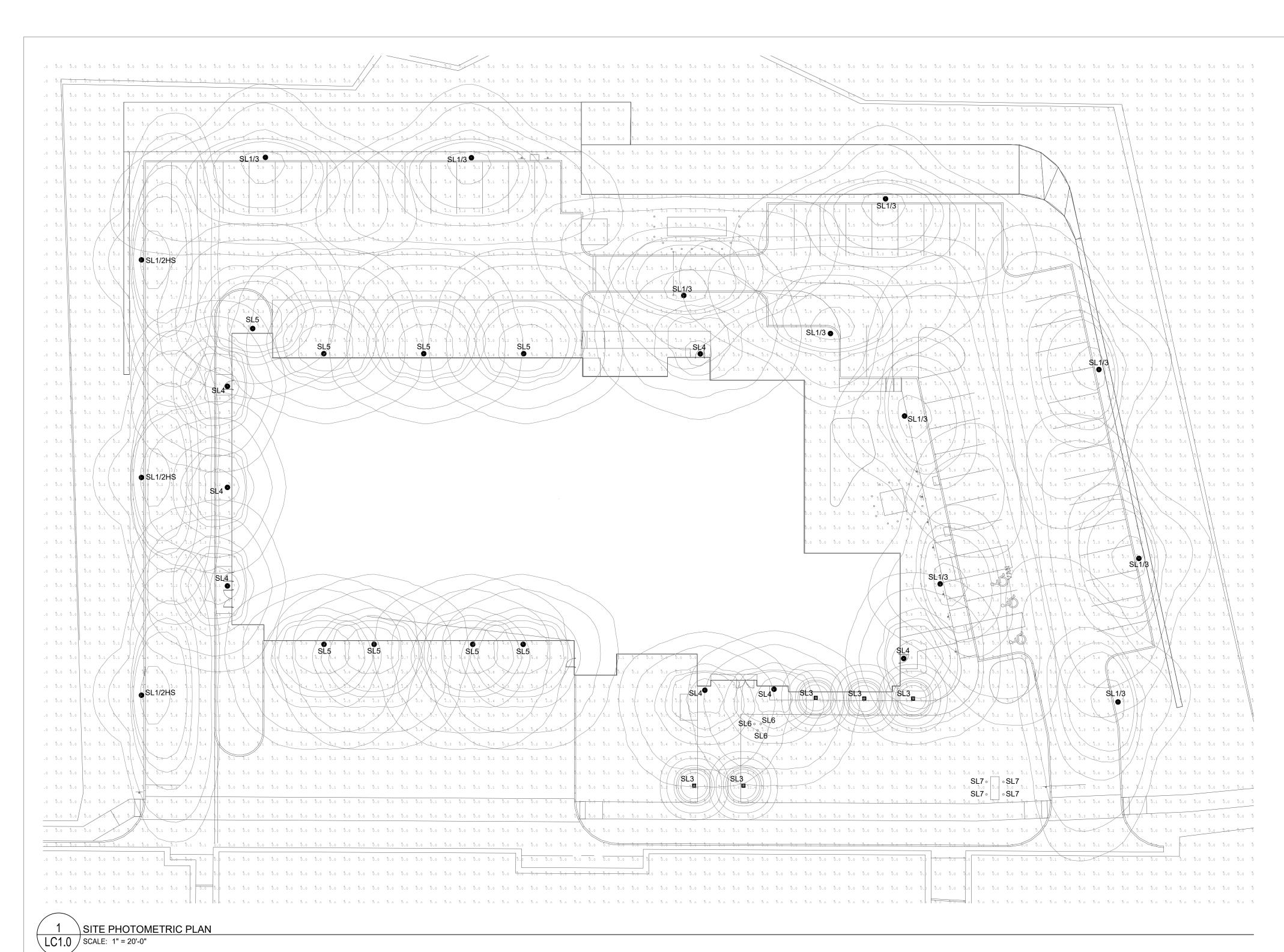


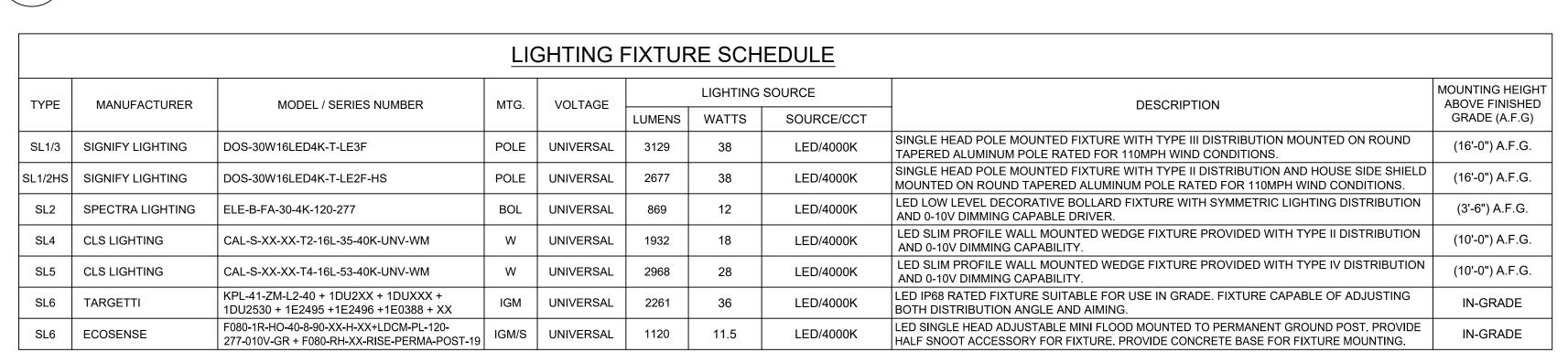
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APPROVED B	Y:					
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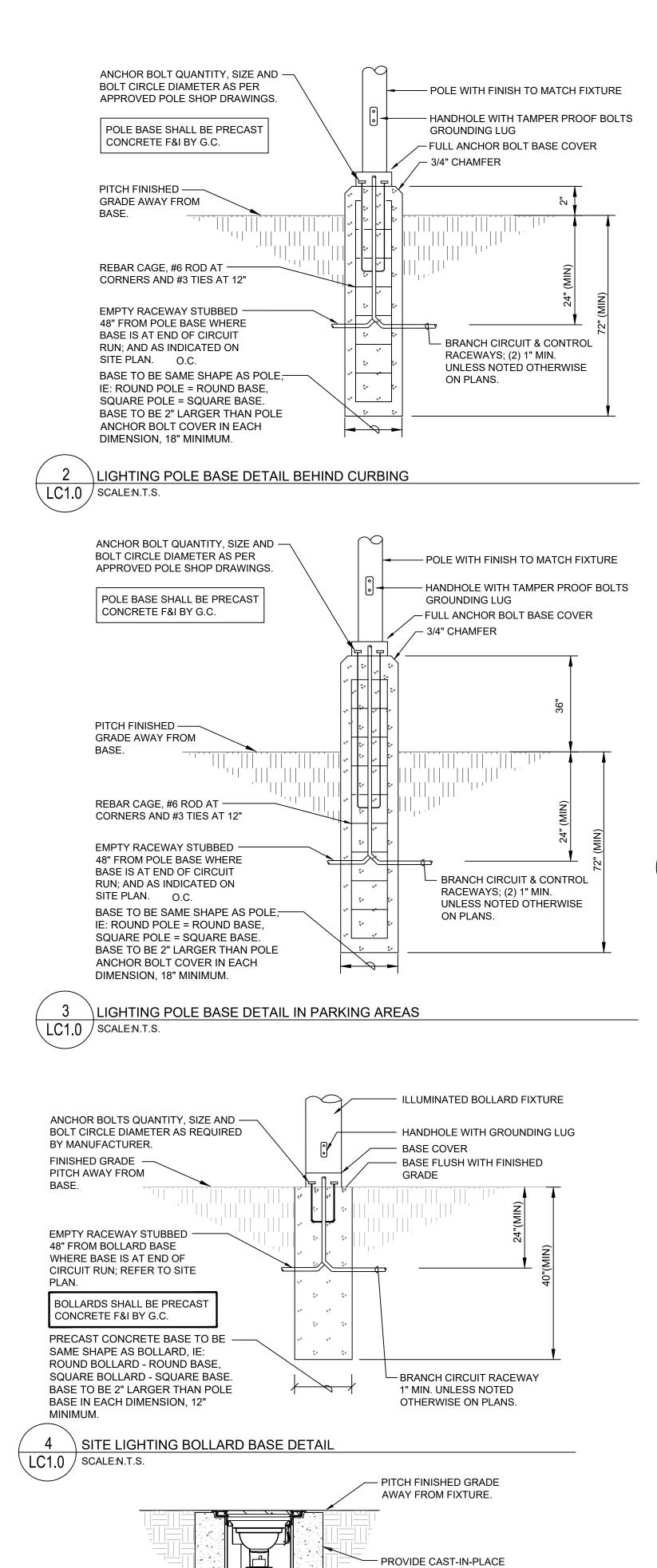
DETAILS 10

DRAWING NO.: SHEET NO. 19 OF





MOUNTING DESIGNATIONS					
POLE	POLE	U	UNIVERSAL		
BOL	BOLLARD	W	WALL		
R	RECESSED	IGM	IN-GRADE		



CONCRETE ENCASEMENT,

INTERNAL FEATURES OF

FOR REFERENCE ONLY

1" MIN. UNLESS NOTED OTHERWISE ON PLANS.

PROVIDE 6" GRAVEL BASE

PROVIDE INTERNAL GLARE CONTROL GRID / HEX-CELL

TYPE LOUVER.

FIXTURE ARE GENERIC AND

BRANCH CIRCUIT RECEWAY(S);

FIXTURE ROUGH-IN -

KIT FOR CONCRETE

PROVIDE TAMPER —

PROOF BOLTS ON

5 IN GRADE FIXTURE MOUNTING DETAIL

LENS RETENSION

SECTION A-A

1. THIS DETAIL SHALL BE TYPICAL FOR FIXTURE TYPE SL6 & SL7

POUR

LC1.0 SCALE:N.T.S.









JMB Drawing Little

JMB Drawn by Che

3/18/2024

Date

22314

Job number

DESIGN REVIEW

Drawing set

Drawing number

LC1.0

24 Roland Street, Suite 301 Charlestown, MA 02129

www.hktarchitects.com

T: 617.776.6545

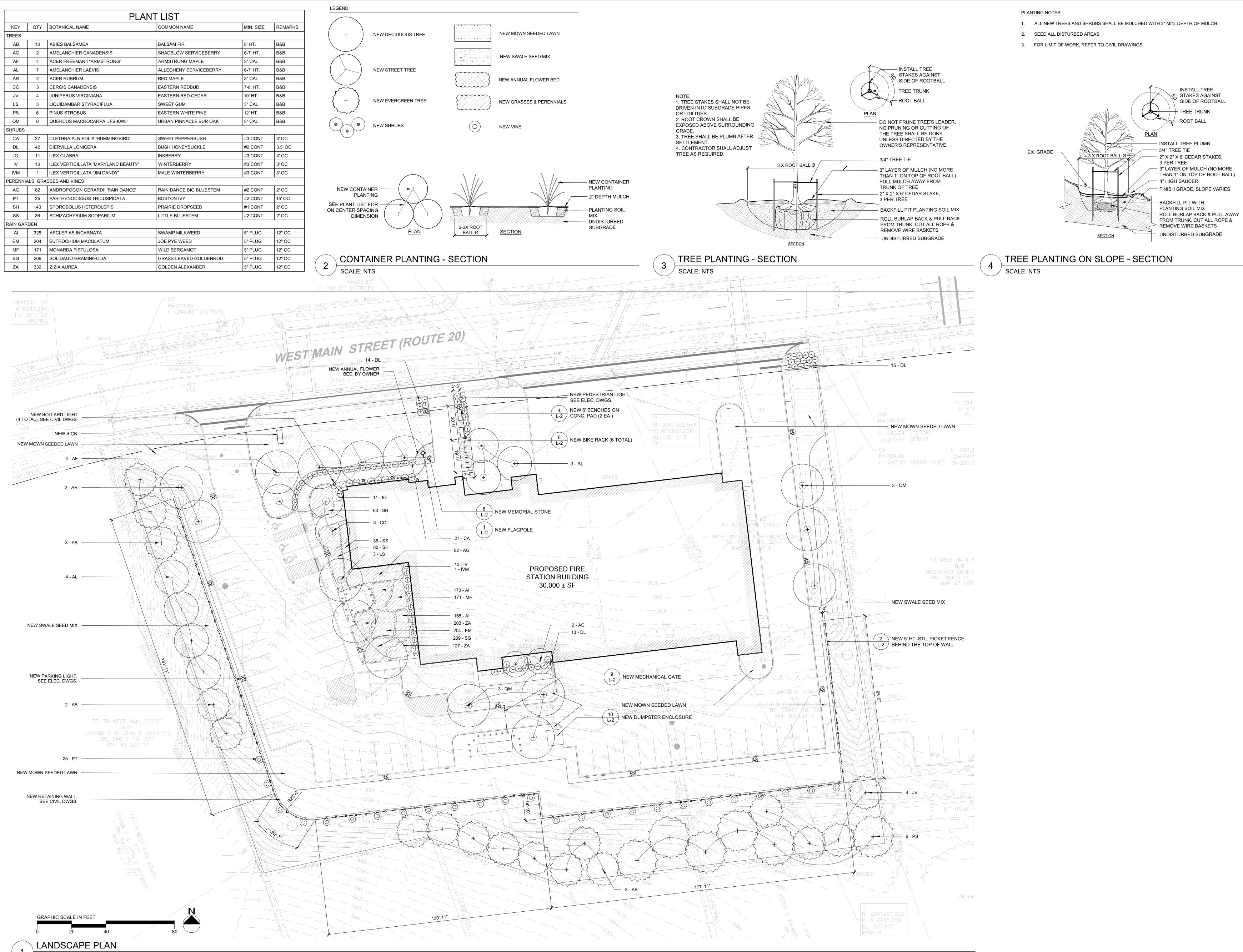
F: 617.776.6678

Revision Schedule

Registrations

Consultants

GGD Consulting Engineers, Inc. 375 Faunce Corner Road, Suite D, Dartmouth, MA 02747-1258 p: 508-998-5700 • f: 508-998-0883 • www.g-g-d.com



SCALE: 1"=20'-0"

24 Roland Street, Suite 301 Charlestown, MA 02129 T: 617.776.6545 F: 617.776.6678 www.hktarchitects.com

Revision Schedule NO. Revision

Registrations

Consultants

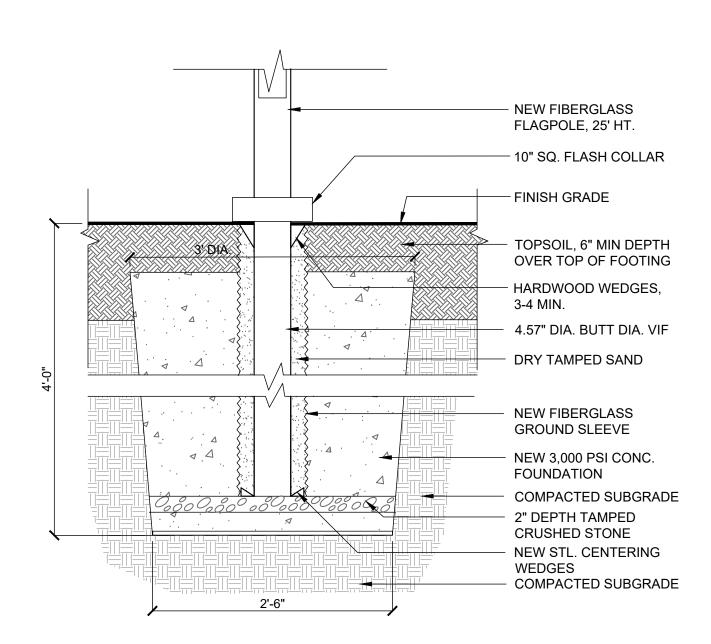
RAY DUNETZ LANDSCAPE ARCHITECTURE, INC. 179 GREEN STREET

617-524-6265 T

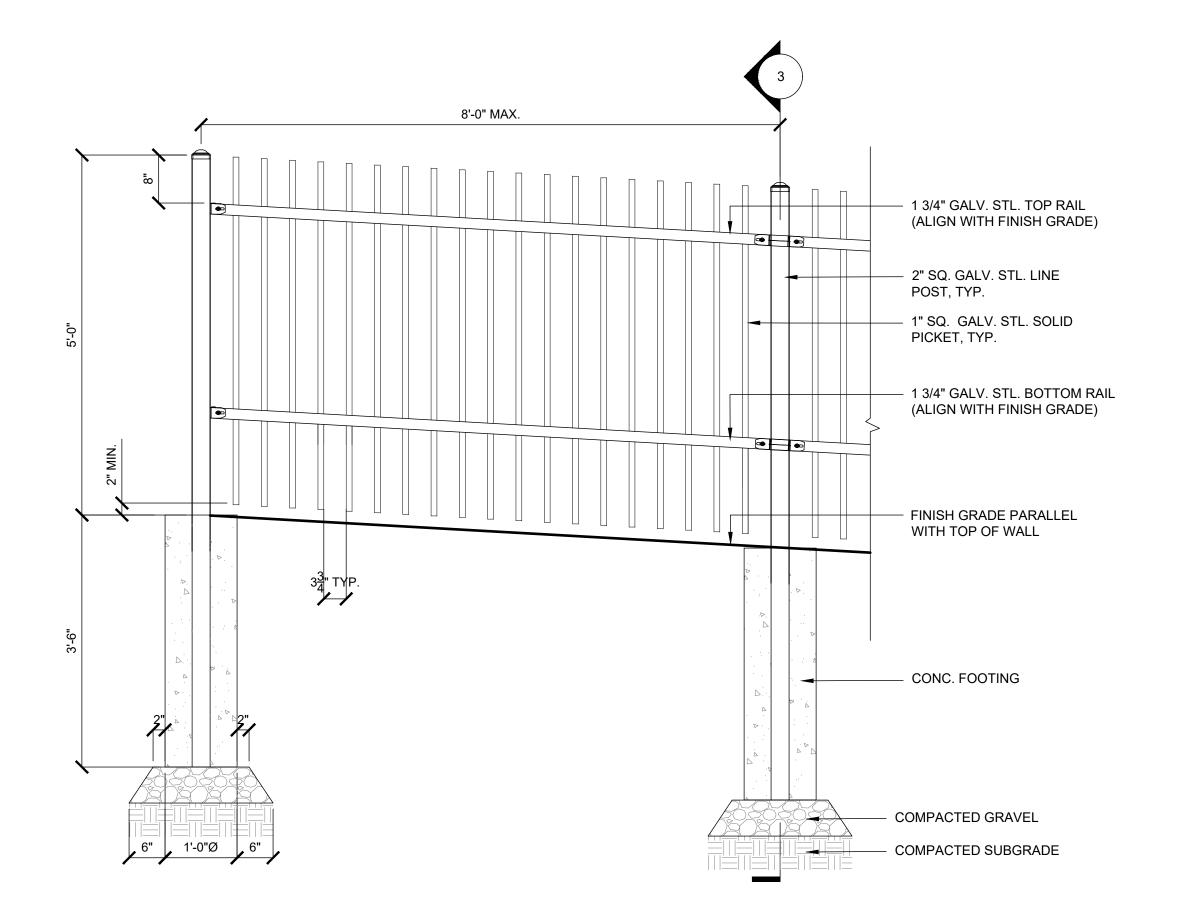
BOSTON, MA 02130

05/03/2024

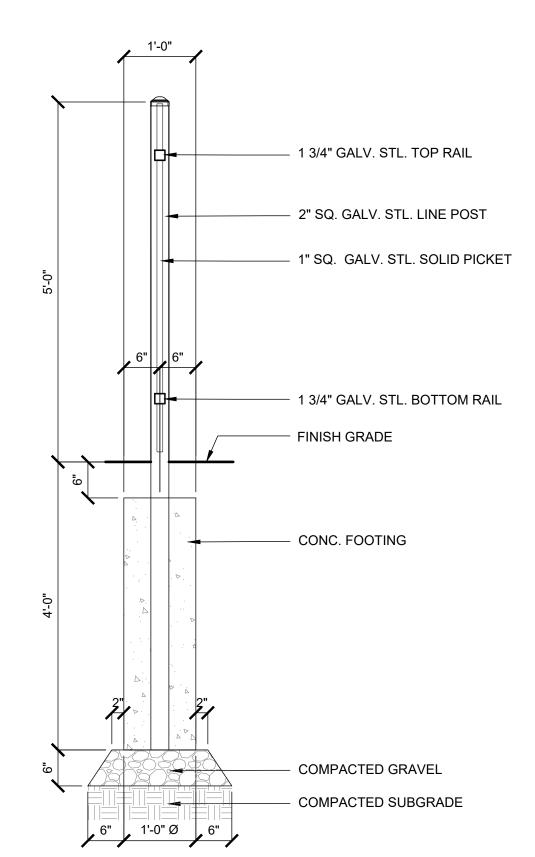
22314 Job number DESIGN DEVELOPMENT PRICING



FLAGPOLE - SECTION

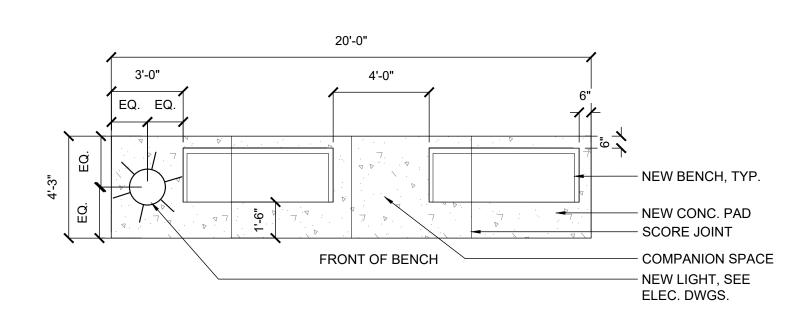


FENCE - ELEVATION SCALE: 3/4"=1'-0"

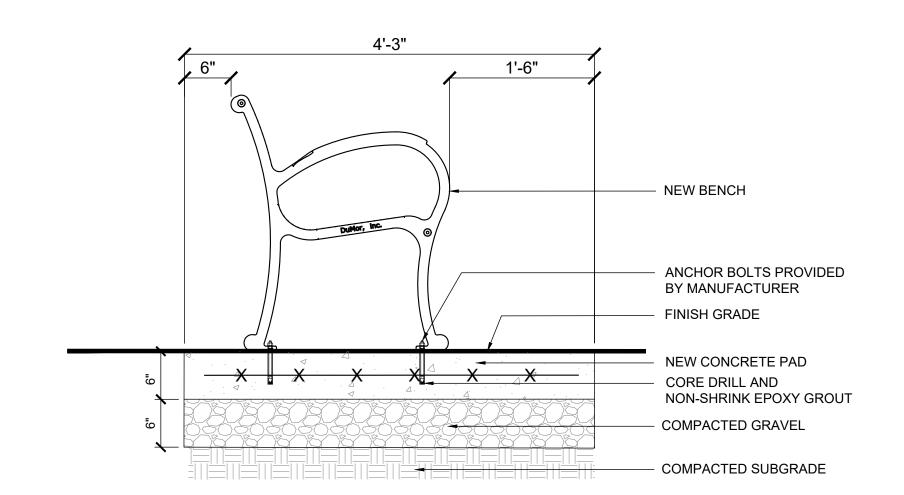


FENCE - SECTION

SCALE: 3/4"=1'-0"

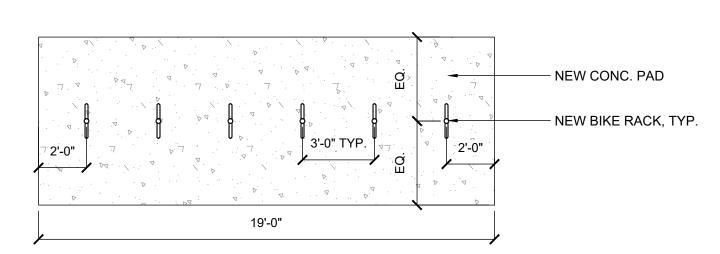


BENCH - PLAN SCALE: 1/4"=1'-0"



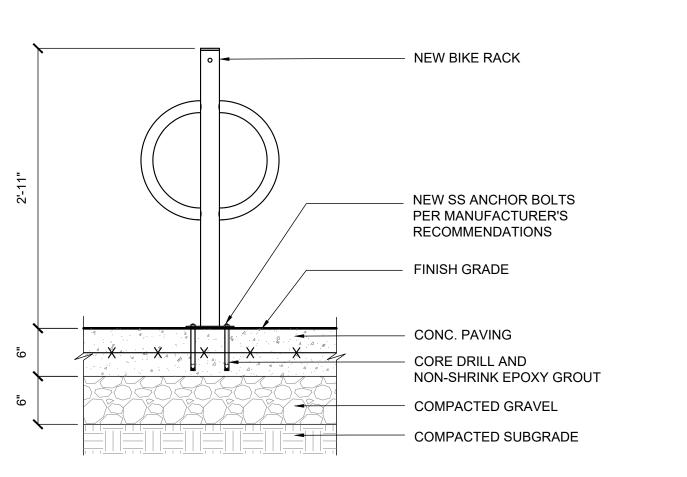
BENCH - SECTION

/ SCALE: 1"=1'-0"



BIKE RACK - PLAN

SCALE: 1/4"=1'-0"

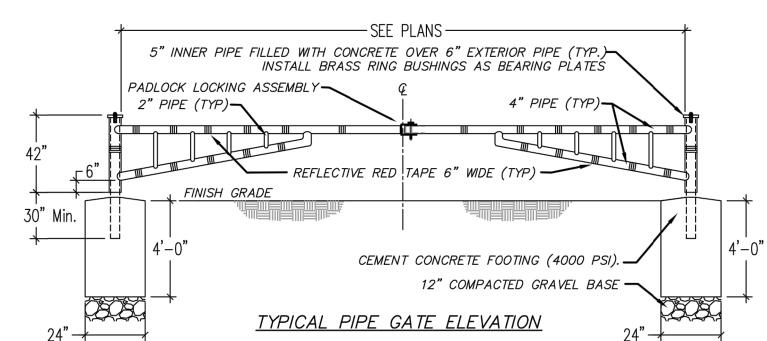


BIKE RACK - SECTION



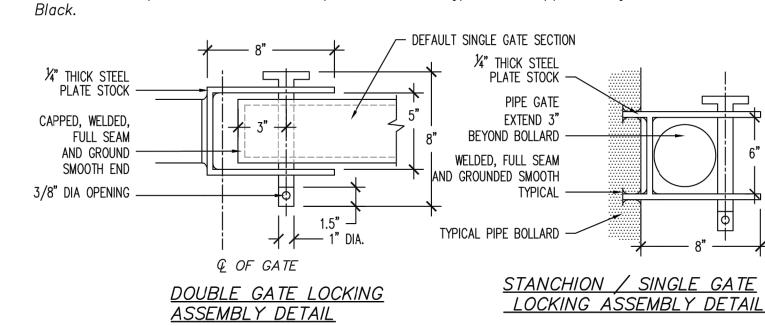
MEMORIAL STONE - IMAGE

SCALE: NTS



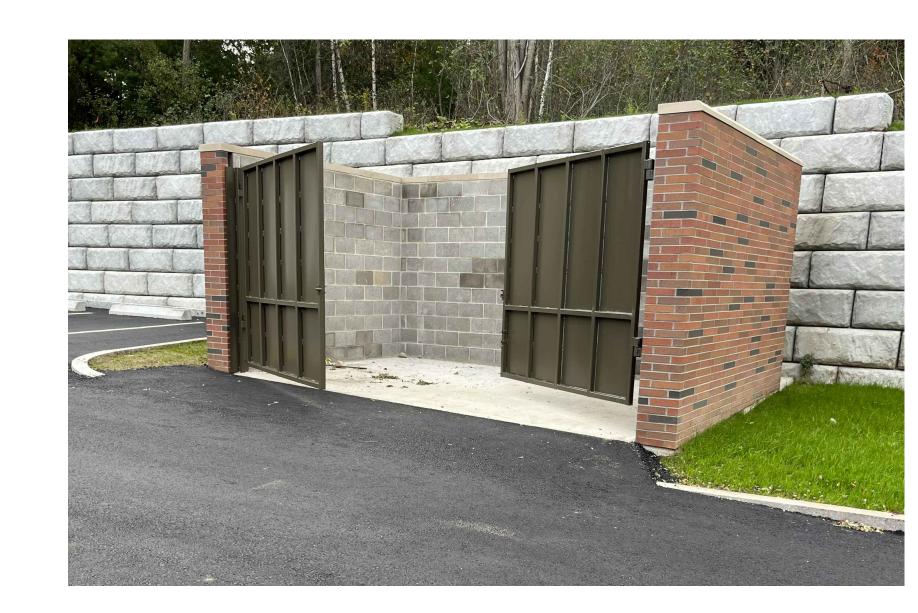
GENERAL NOTES: 1. Steel pipe for gates shall be seamless steel pipe in accordance with ASTM 53 type F.
2. All hardware shall conform to ASTM A307 requirements and shall be galvanized per ASTM 3. Welding shall be in conformance with AWS codes. All connections shall be formed with fish—mouthed joints full seam welds, grounded smooth and sanded.

4. All gates shall be set plumb and level. Concrete footings shall be installed using approved formwork and rebar spacing (if required). Submit shop drawing for approval/review. 5. Gate must be free to open a min. of 95° from closed position. 6. Gate to be primed, enameled and painted. Paint type to be approved by owner. Color is



MECHANICAL GATE - DETAIL

SCALE: NTS



DUMPSTER ENCLOSURE - IMAGE



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Revision Schedule NO. Revision

Consultants

Registrations

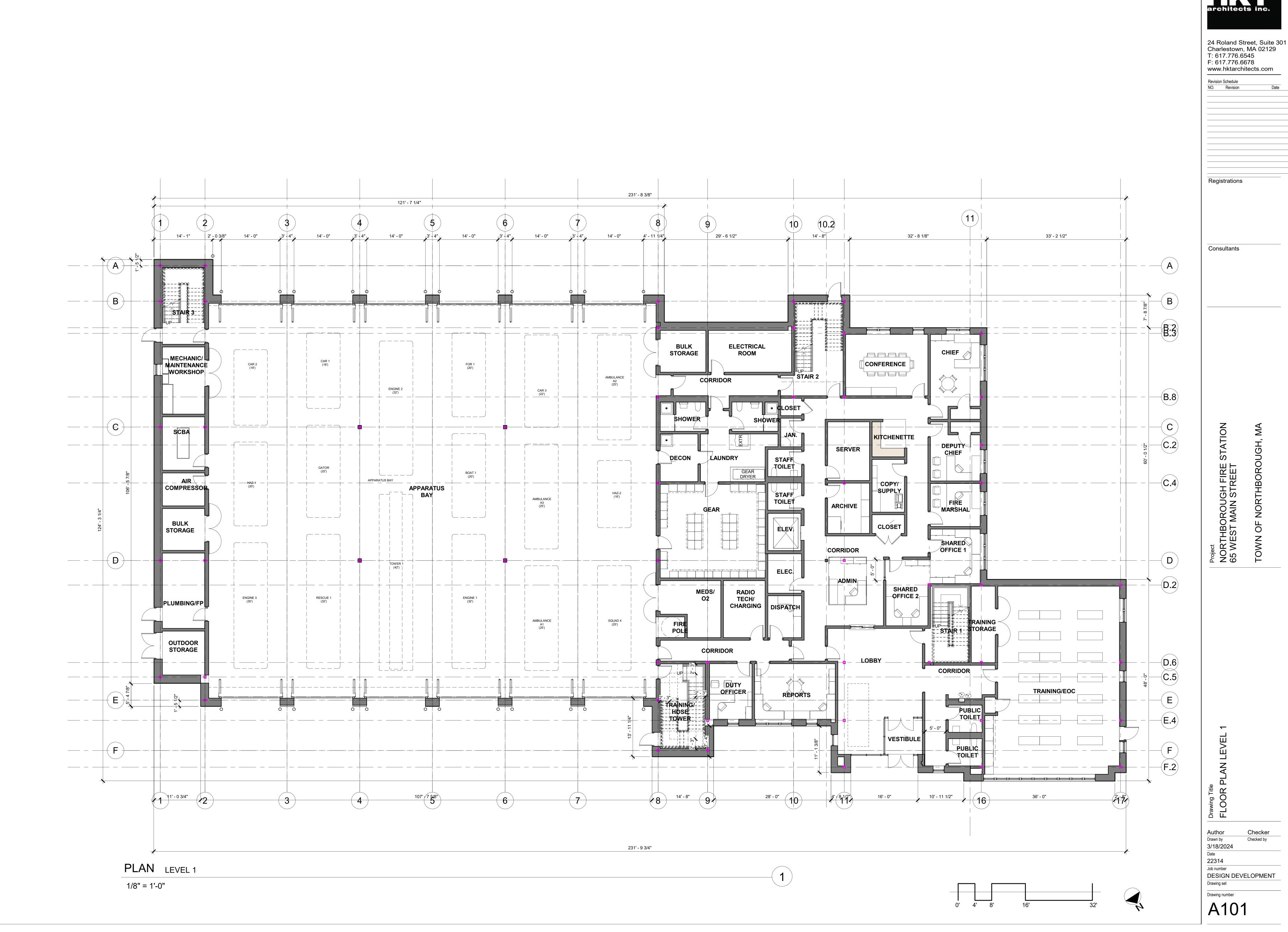


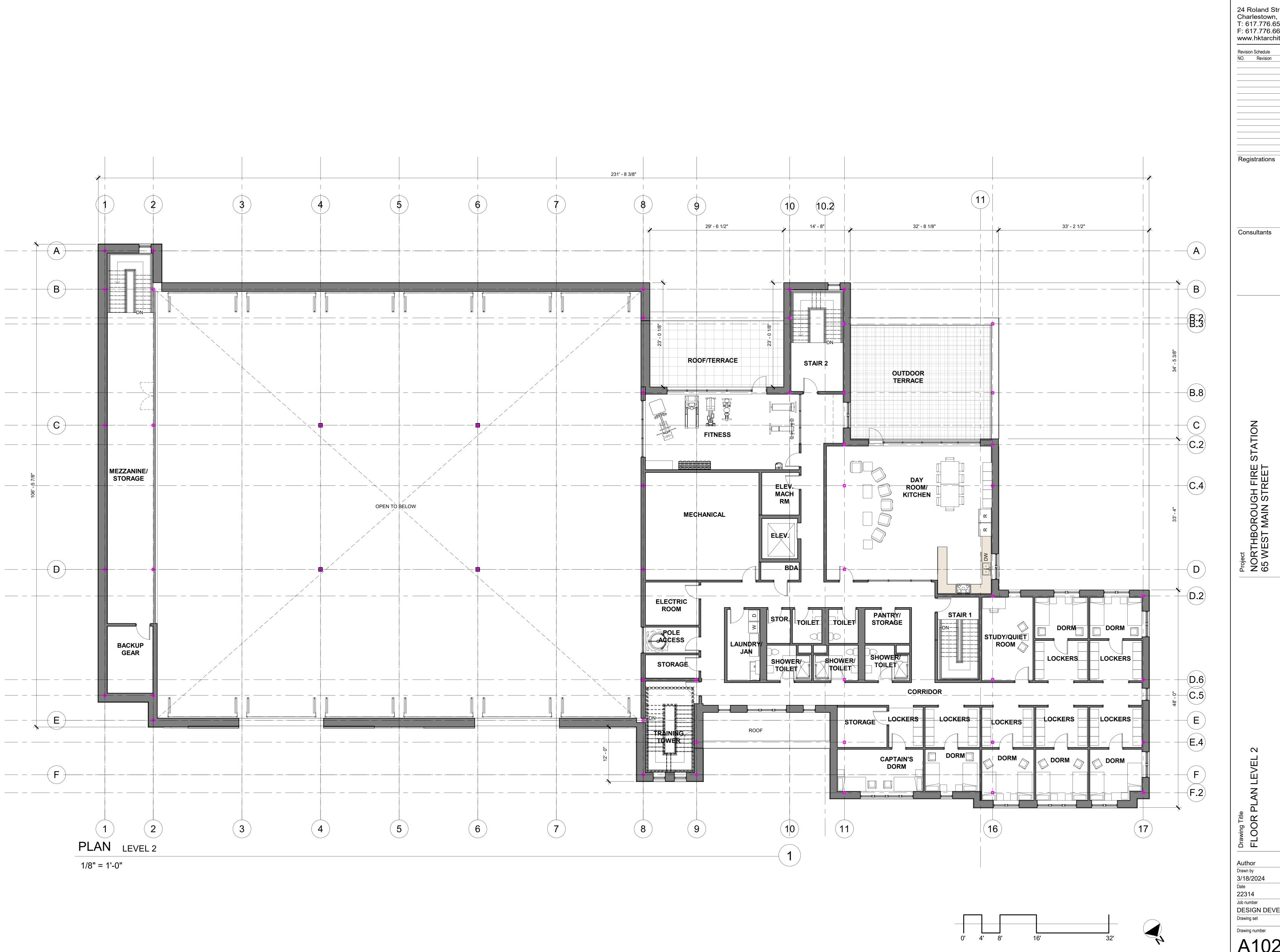
Project
NORTHBOROUGH FIRE S
63 WEST MAIN STREET

05/03/2024

22314 Job number DESIGN DEVELOPMENT PRICING

Drawing number





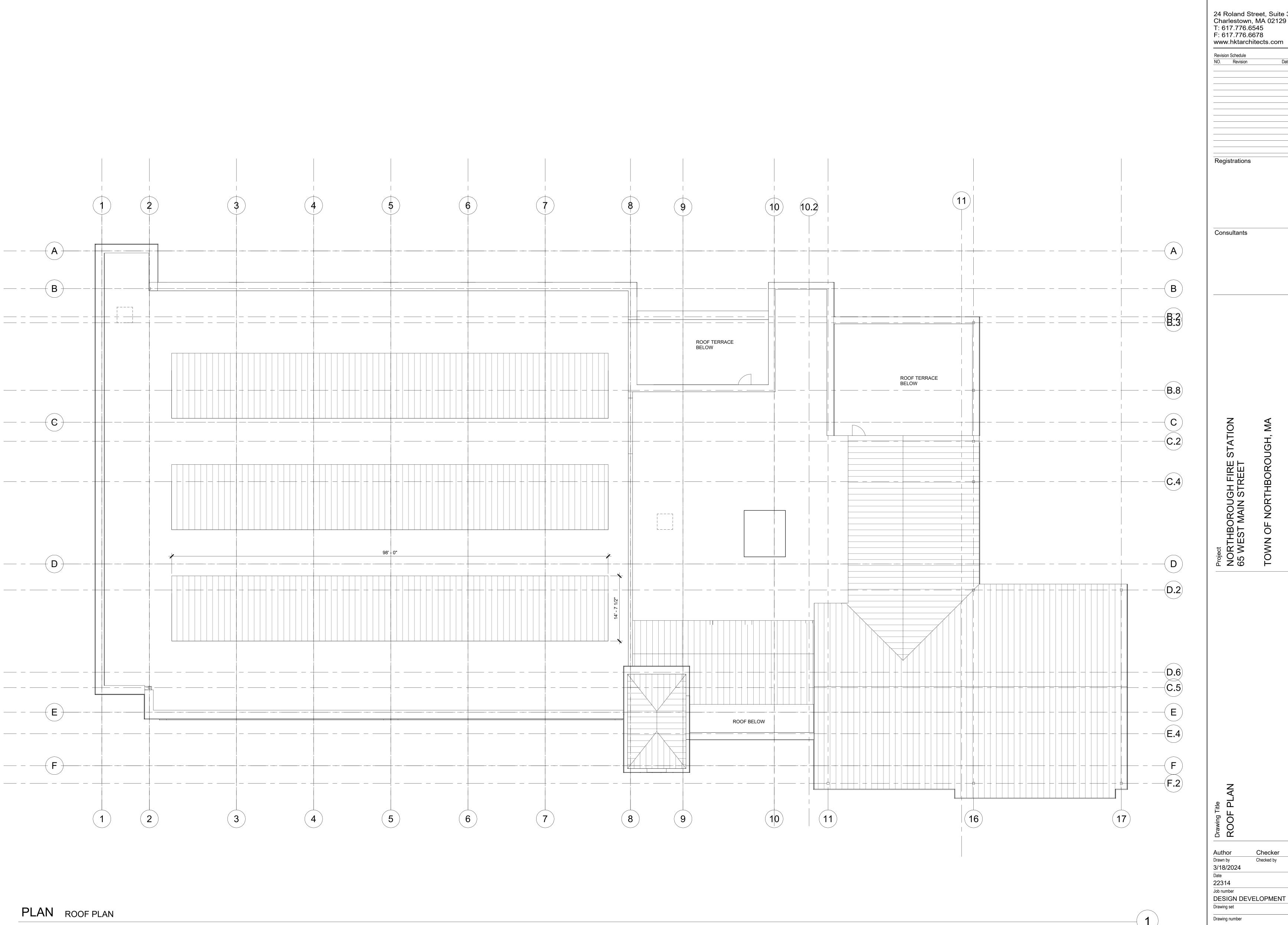


Revision Schedule

Consultants

Author Checker
Drawn by Checked by
3/18/2024
Date
22314
Job number
DESIGN DEVELOPMENT
Drawing set

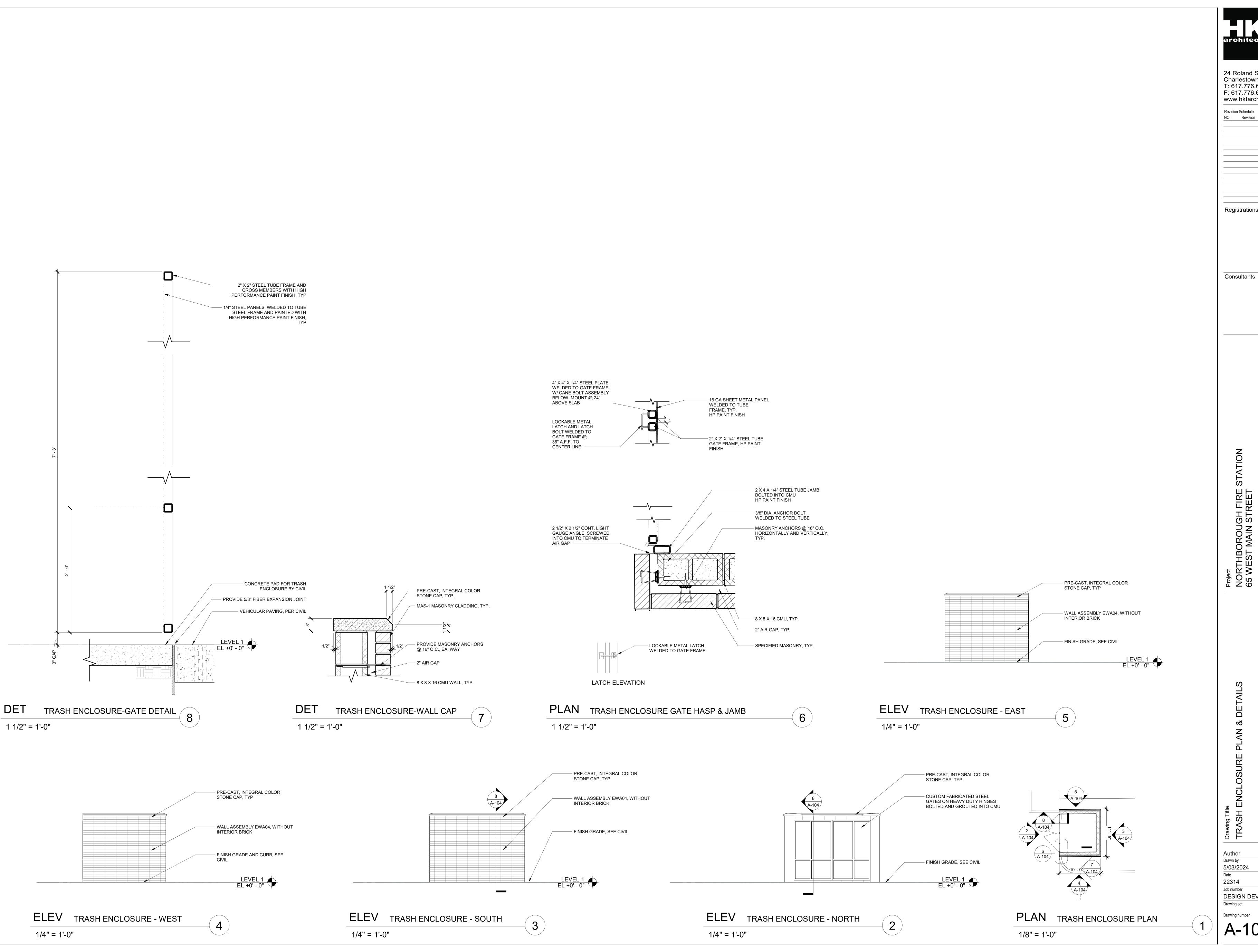
Drawing number
A102



1/8" = 1'-0"

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A103



Revision Schedule

Registrations

Project
NORTHBOROUGH FIRE S
65 WEST MAIN STREET

Author Drawn by 5/03/2024 Date **22314**

Job number DESIGN DEVELOPMENT

A-104



NORTH ELEVATION



Author
Drawn by
3/18/2024 Date

22314

Job number

DESIGN DEVELOPMENT

Drawing set

Drawing number A301



SOUTH ELEVATION



EAST ELEVATION

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Revision Schedule NO. Revision

Consultants

Author
Drawn by
3/18/2024

Date
22314

Job number

DESIGN DEVELOPMEN

Drawing set

A302



VIEW FROM NORTHWEST



VIEW FROM NORTHEAST



VIEW FROM SOUTHEAST



VIEW FROM SOUTHWEST



Revision Schedule

NO. Revision

Registrations

Consultants

Author Drawn by 3/18/2024 22314

DESIGN DEVELOPMENT

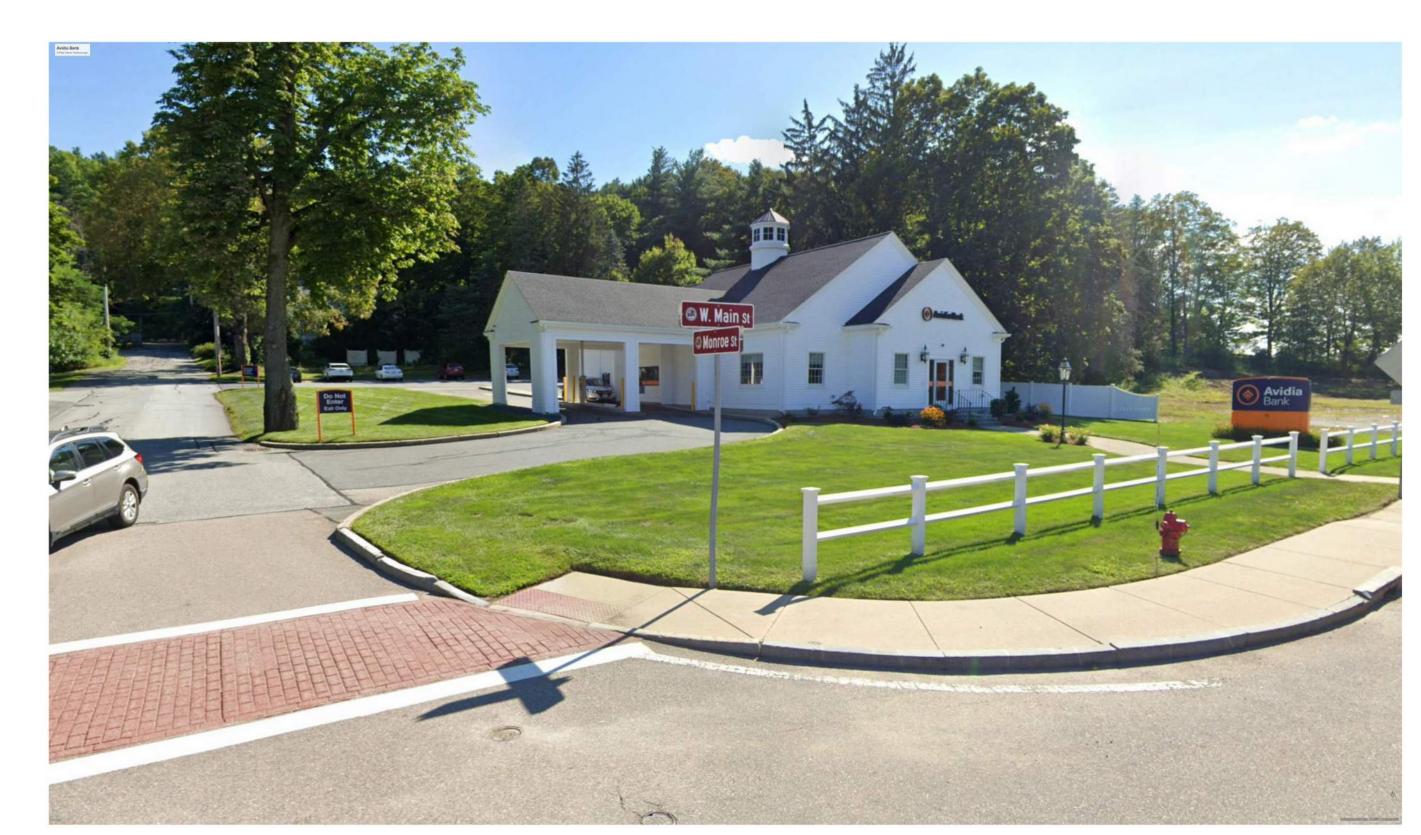
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Drawing number

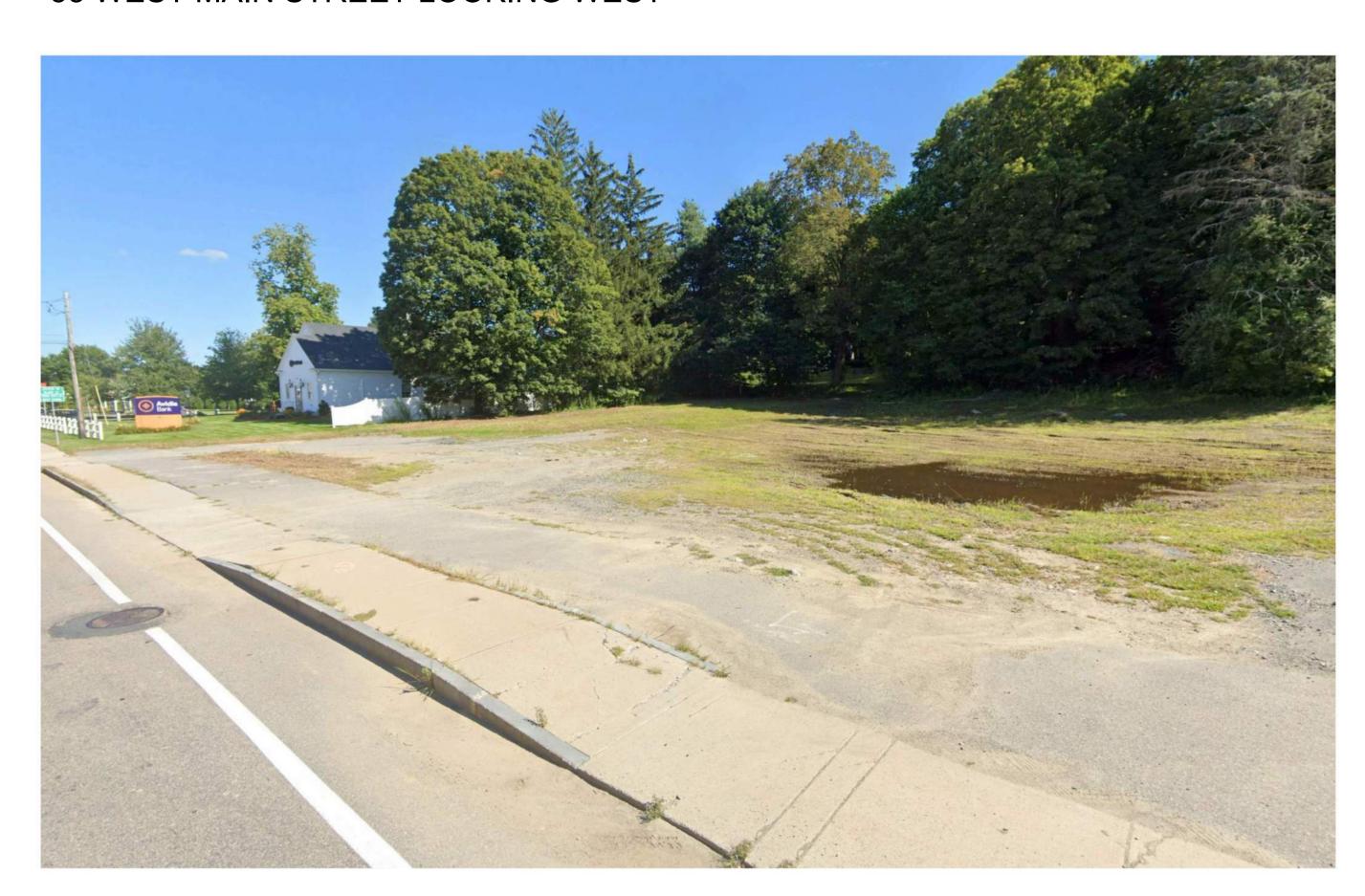
A303



73 WEST MAIN STREET LOOKING WEST



53 WEST MAIN STREET LOOKING WEST



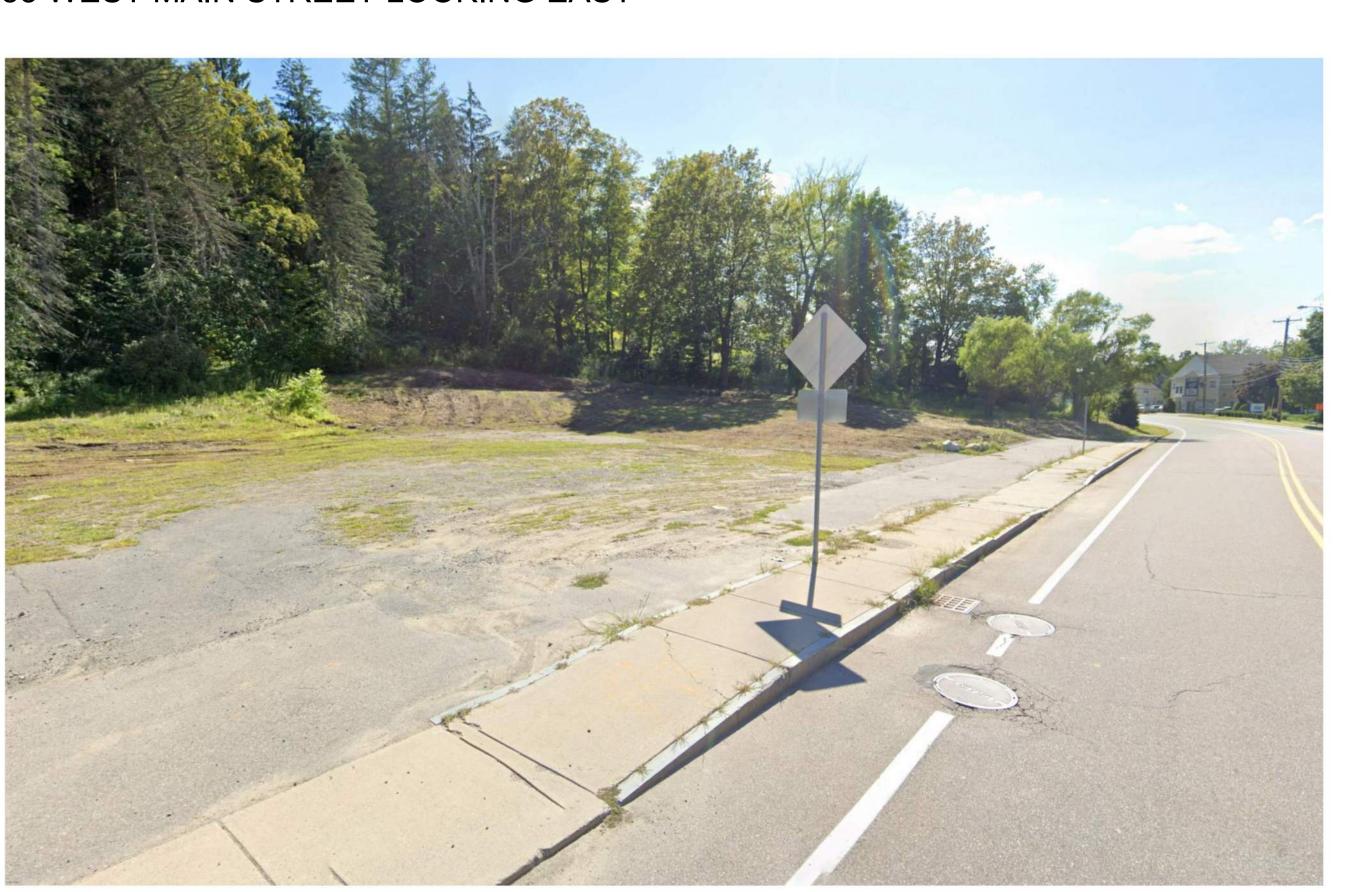
EXISTING SITE LOOKING EAST AT WEST MAIN STREET



73 WEST MAIN STREET LOOKING EAST



53 WEST MAIN STREET LOOKING EAST



EXISTING SITE LOOKING WEST AT WEST MAIN STREET



Revision Schedule

Registrati

Consultants

ST MAIN STREET

Drawing Title SONTEXT PHOTOS - ADJACENT

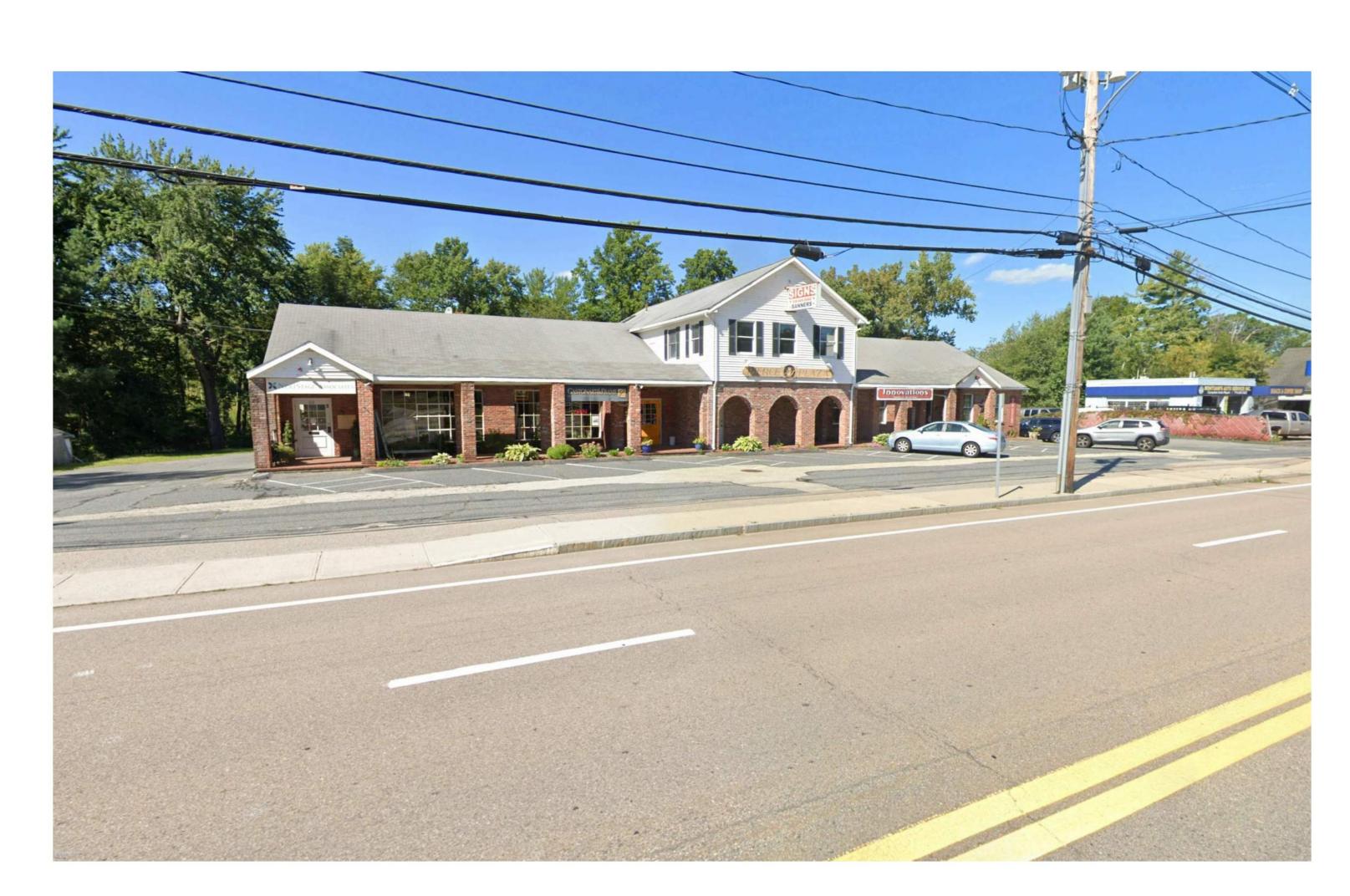
Author Checker
Drawn by Checked by
1/31/2024
Date
22314

Job number
SCHEMATIC DESIGN PRICING
Drawing set

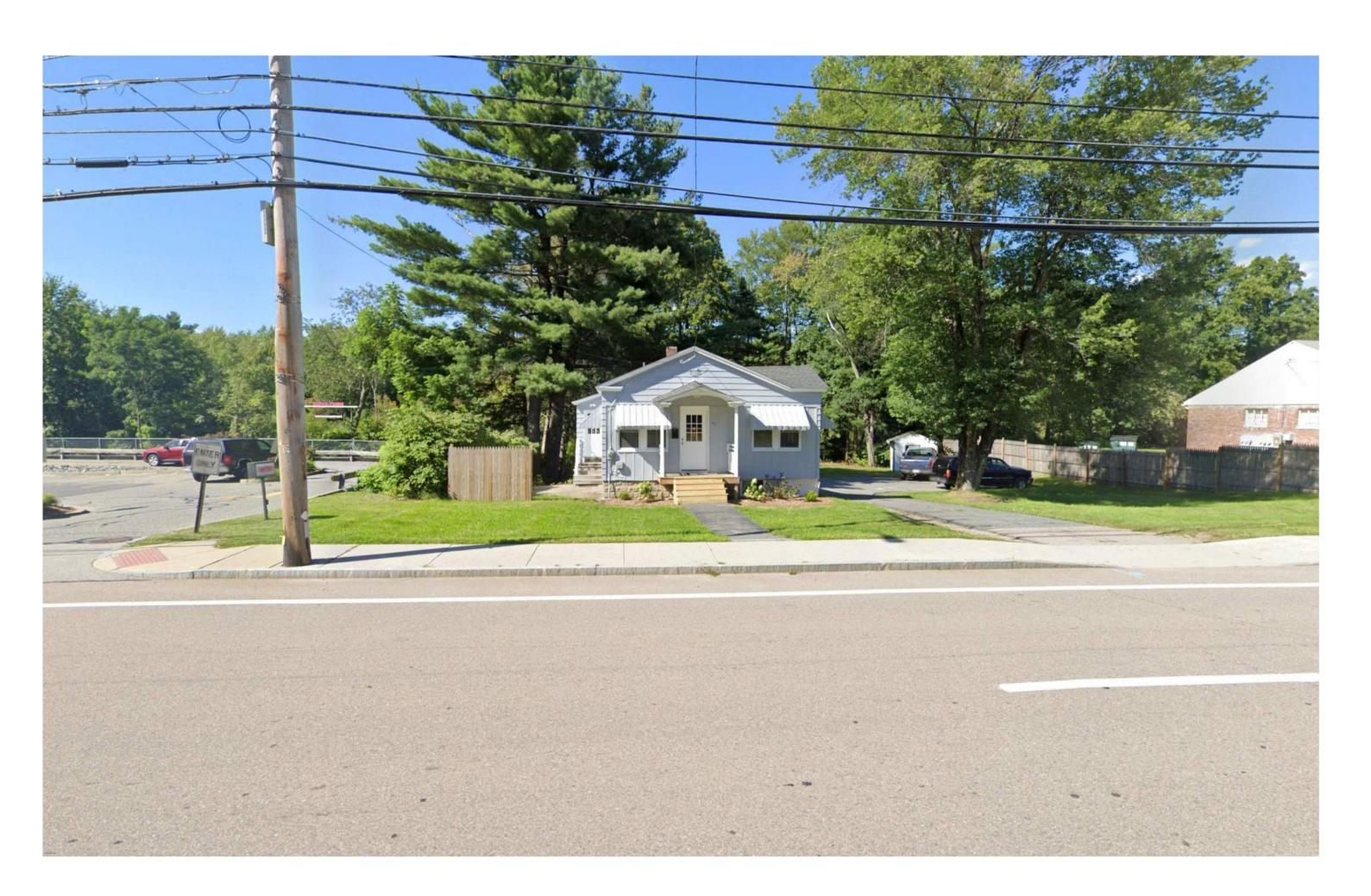
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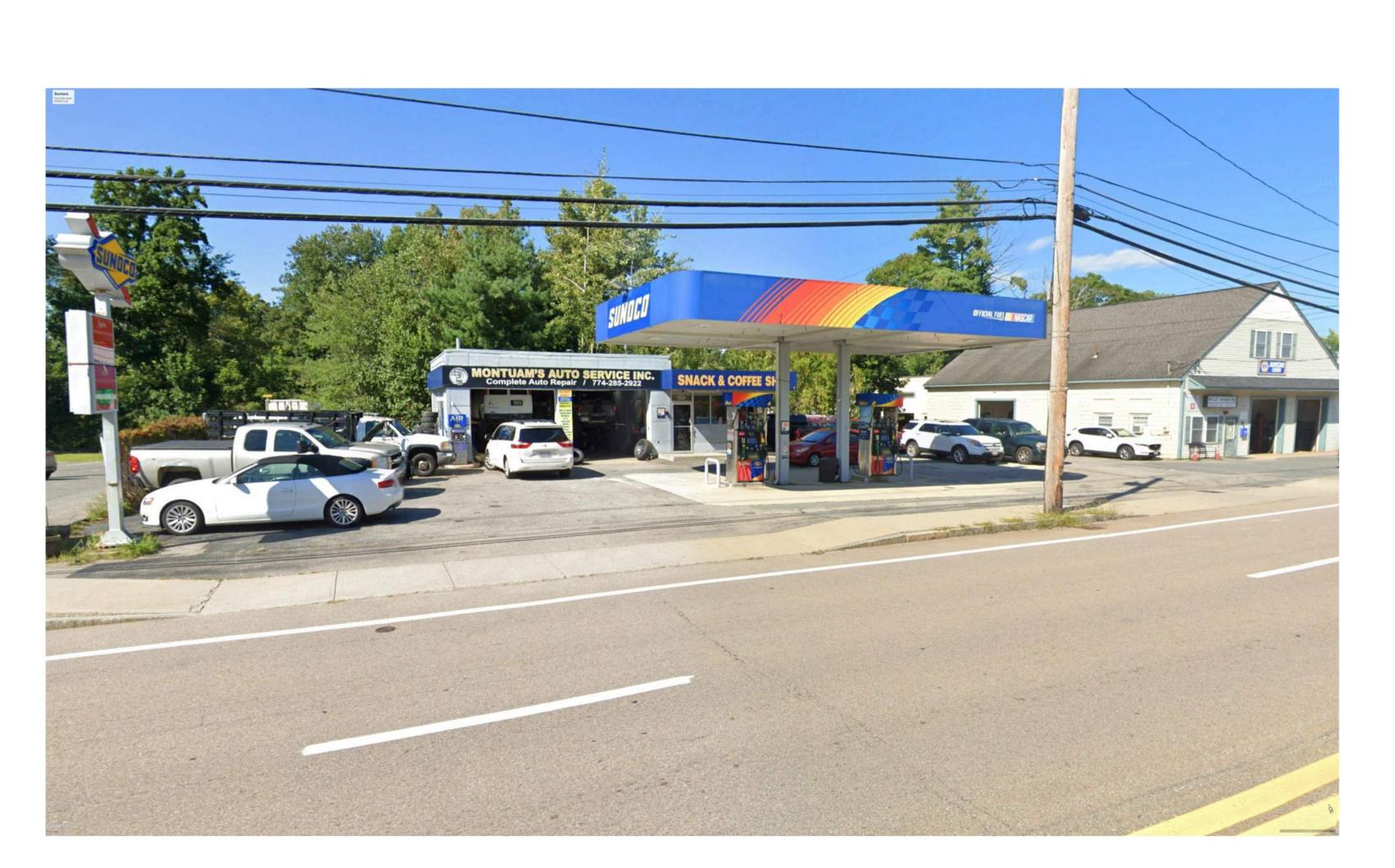
70 WEST MAIN STREET



54 WEST MAIN STREET



62 WEST MAIN STREET



48 WEST MAIN STREET



Consultants

Author
Drawn by
1/31/2024 Date

22314

Job number

SCHEMATIC DESIGN PRICING

Drawing set

Drawing number A305