

GENERAL NOTES

- 1. THESE PLANS ARE SOLELY BASED ON INFORMATION THE OWNER AND/OR PROVIDER HAS PROVIDED TO BOHLER ENGINEERING, HEREIN "BOHLER" PRIOR TO THE DATE ON WHICH THE ENGINEER OF RECORD OR BOHLER PREPARED THESE PLANS. THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS...
2. THE CONTRACTOR MUST STRICTLY COMPLY WITH THESE NOTES AND ALL THE SPECIFICATIONS/REPORTS CONTAINED HEREIN...
3. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST CONFIRM WITH THE ENGINEER OF RECORD AND BOHLER THAT THE LATEST EDITION OF ALL APPLICABLE REGULATIONS...
4. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED...
5. THE CONTRACTOR MUST ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS/STANDARDS AND CONDITIONS OF APPROVAL...
6. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFULLY REVIEWING THE MOST CURRENT ARCHITECTURAL, CIVIL AND STRUCTURAL CONSTRUCTION DOCUMENTS...
7. CONTRACTOR MUST REFER TO AND ENSURE COMPLIANCE WITH THE APPROVED ARCHITECTURAL/BUILDING PLANS OF RECORD FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRIES, RECESSED BUILDING ELEMENTS, AND EXACT BUILDING UTILITY LOCATIONS...
8. THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THESE PLANS...
9. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND MEASUREMENTS INCLUDED ON DESIGN DOCUMENTS HEREIN AND MUST NOT SCALE OFF THE DRAWINGS...
10. THE OWNER AND CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY...
11. WHEN INCLUDED AS ONE OF THE REFERENCED DOCUMENTS, THE GEOTECHNICAL REPORT, SPECIFICATIONS AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REFERENCED CONSTRUCTION DOCUMENTS...
12. THE ENGINEER OF RECORD AND BOHLER ARE NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, HAS NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY...
13. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN AND WHERE SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS...
14. THE CONTRACTOR MUST EXERCISE EXTREME CAUTION WHEN PERFORMING ANY WORK ADJACENT TO PAVED, UTILITIES, STRUCTURES, ETC. WHICH ARE TO REMAIN OR BE PROTECTED FROM THE PROJECT OR ALL PARTS THEREOF...
15. DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION AND CONSTRUCTION WASTES, UNSUITABLE EXCAVATED MATERIAL, EXCESS SOIL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE JURISDICTION OVER THIS SUBJECT PROPERTY...
16. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN RECORDS TO DEMONSTRATE PROPER AND FULLY COMPLIANT DISPOSAL ACTIVITIES, TO BE PROMPTLY PROVIDED TO THE OWNER UPON REQUEST...
17. THE CONTRACTOR MUST REPAIR, AT CONTRACTOR'S SOLE COST, ALL DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION...
18. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR AND HAVE NO CONTRACTUAL, LEGAL OR OTHER RESPONSIBILITIES FOR JOB SITE SAFETY...
19. THE CONTRACTOR MUST IMMEDIATELY NOTIFY IN WRITING, TO THE ENGINEER OF RECORD AND BOHLER, ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE...
20. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM THE CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS...
21. ALL CONTRACTORS MUST CARRY AT LEAST THE MINIMUM AMOUNT OF THE SPECIFIED AND COMMERCIALLY REASONABLE STATIONARY WORKERS COMPENSATION INSURANCE...
22. THE ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES...
23. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER NOR THE PRESENCE OF BOHLER AND/OR ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVENTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES...
24. WHEN IT IS CLEARLY AND SPECIFICALLY WITHIN BOHLER'S SCOPE OF SERVICES CONTRACTED BY THE OWNER/DEVELOPER, BOHLER WILL REVIEW OR TAKE OTHER ACTION...
25. THE CONTRACTOR DEVIATES FROM THESE PLANS AND/OR SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD AND BOHLER...
26. THE CONTRACTOR IS RESPONSIBLE FOR A MAINTAINING AND PROTECTING THE TRAFFIC CONTROL PLAN AND ELEMENTS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS...
27. OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS...
28. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN AN ON-SITE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN CONFORMANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY OR LOCAL GOVERNING AGENCY...
29. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED DOCUMENTS PREPARED BY THE ENGINEER OF RECORD AND BOHLER, THE USE OF THE WORDS "CERTIFY" OR "VERIFY" (OR CERTIFICATION) IS AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE ENGINEER OF RECORDS AND BOHLER KNOWLEDGE OR BELIEF...
30. THE CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY...

GENERAL DEMOLITION NOTES

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES...
2. THE CONTRACTOR MUST CONDUCT DEMOLITION/REMOVALS ACTIVITIES IN SUCH A MANNER AS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND ALL OTHER ADJACENT FACILITIES...
3. WHEN DEMOLITION RELATED ACTIVITIES MEET ROADWAY AND/OR ROADWAY RIGHT-OF-WAY, THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FEDERAL, STATE, AND LOCAL REGULATIONS...
4. THE DEMOLITION (AND/OR REMOVALS) PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION AND TO IDENTIFY ONLY CONDITIONS REGARDING ITEMS TO BE ACCESSIBLY REMOVED AND/OR DESTROYED...
5. THE CONTRACTOR MUST PROVIDE ALL METHODS AND MEANS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES...
6. ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION...
7. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY, WHICH MUST INCLUDE, BUT IS NOT LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING, OTHER APPROPRIATE AND/OR NECESSARY SAFETY FEATURES AND MEASURES TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION...
8. PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY, THE CONTRACTOR MUST, IN WRITING, RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS AND/OR SPECIFICATIONS...
9. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY COMPANY AND/OR DISCONNECTION AS IDENTIFIED OR REQUIRED FOR THE PROJECT...
10. PRIOR TO COMMENCING ANY DEMOLITION, THE CONTRACTOR MUST OBTAIN ALL REQUIRED PERMITS AND MAINTAIN THE SAME SPECIFIC FOR REVIEW BY THE ENGINEER AND ALL PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT...
11. INSTALL THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE...
12. LOCATE AND PROTECT ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC...
13. PROTECT AND MAINTAIN IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ANY DEMOLITION ACTIVITIES...
14. DEMOLITION ACTIVITIES AND EQUIPMENT MUST NOT USE OR INCLUDE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE...
15. THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES...
16. EXPLOSIVES MUST NOT BE USED WITHOUT THE PRIOR WRITTEN CONSENT FROM BOTH THE OWNER AND ALL APPLICABLE, NECESSARY AND REQUIRED GOVERNMENTAL AGENCIES...
17. THE CONTRACTOR MUST MAINTAIN A RECORD SET OF PLANS WHICH INDICATES THE LOCATION OF EXISTING UTILITIES...
18. THE CONTRACTOR MUST LOCATE AND CLEARLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED...
19. CONTRACTOR SHALL FIELD LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION...
20. CONTRACTOR SHALL INSPECT ALL EXISTING UTILITY STRUCTURES THAT ARE TO REMAIN FOR THE PROJECTS USE...
21. THE CONTRACTOR SHALL REMOVE ANY BUILDING FOUNDATION REMAINS OR ASSOCIATED IMPROVEMENTS...
22. THE CONTRACTOR SHALL VERIFY THE PLANS VERSUS THE LOCATION OF EXISTING STRUCTURES, UTILITIES AND APPURTENANCES...
23. THE CONTRACTOR SHALL MAINTAIN, ADJUST OR INCLUDE EXISTING MONITORING WELLS...
24. WHERE THE LIMIT OF WORK COINCIDES WITH PROPERTY LINE, TREE LINE, PROPOSED SAWCUT OR COMBINATION THEREOF...
25. EXISTING TREES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION...
26. CONTRACTOR SHALL REPAIR/REPLACE ANY TRAFFIC LOOP DETECTORS THAT ARE DAMAGED DURING CONSTRUCTION...
27. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UNDERGROUND UTILITIES...
28. CONTRACTOR SHALL LOCATE ANY EXISTING UTILITY SERVICES THAT ARE TO BE TERMINATED...
29. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE...
30. THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES...
31. PRIOR TO THE COMMENCEMENT OF GENERAL CONSTRUCTION, THE CONTRACTOR MUST INSTALL SOIL EROSION CONTROL AND ANY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES NECESSARY...
32. ALL DIRECTIONAL/TRAFFIC SIGNING AND PAVEMENT STRIPES MUST CONFORM TO THE LATEST STANDARDS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)...
33. THE LOCATIONS OF PROPOSED UTILITY POLES AND/OR LOCALY SIGNED SHOWN ON THE PLANS ARE SCHEMATIC AND PRELIMINARY...
34. WHEN APPLICABLE, OWNER/OPERATOR MUST FILE THE N.D. FOR NPDES PERMITS AT APPROPRIATE AND/OR REQUIRED TIMEFRAMES...
35. ALL CONCRETE MUST BE AIR ENTRAINED AND INCLUDE THE MINIMUM COMPRESSIVE STRENGTH OF JURISDICTIONAL STANDARD PSI AT 28 DAYS...
36. THE CONTRACTOR MUST FILE SITE SIGNAGE APPLICATION OR PERMIT UNDER SEPARATE APPLICATION UNLESS DONE SO AS PART OF JURISDICTIONAL PERMITTING PROCEDURES...
37. THE CONTRACTOR MUST REPAIR OR REPLACE, AT THE CONTRACTORS SOLE COST AND EXPENSE, ALL SIDEWALKS, CURBS, PAVEMENT MARKINGS, AND PAVEMENT DAMAGED BY CONSTRUCTION ACTIVITIES...
38. WORK WITHIN THE RIGHT-OF-WAY MUST BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND STANDARDS...
39. WHEN RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL ELEVATIONS...
40. THE CONTRACTOR IS CAUTIONED OF EXISTING UTILITY SERVICES TO REMAIN IN PROXIMITY TO PROPOSED BOLLARDS AND SIGNS...
41. WHEN RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL ELEVATIONS (TV & BV) REPRESENT THE PROPOSED FINISHED GRADE AT THE FACE OF THE TOP AND BOTTOM OF THE RETAINING WALL...
42. PEER REVIEW AND GLOBAL STABILITY ANALYSIS OF THE RETAINING WALL DESIGN MUST BE COMPLETED BY THE APPLICABLE PROFESSIONAL ENGINEER...
43. CONTRACTOR SHALL INSTALL CONCRETE CURB ALONG FACE OF BUILDING / WALL AS SHOWN TO PROVIDE CONSISTENT WIDTH ALONG LENGTH OF PROPOSED ACCESSIBLE RAMP AND RAMP LANDING...
44. CONTRACTOR SHALL COORDINATE WITH OWNER/OPERATOR TO REVIEW EXISTING DEPRESSIONS WITH EXISTING PAVEMENT AREAS TO REMAIN AND SHALL CONFIRM THAT THE SCOPE OF WORK SHALL PROVIDE POSITIVE DRAINAGE...
45. BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS...
46. THE CONTRACTOR SHALL VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES...
47. ALL FILL COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION...
48. DURING THE INSTALLATION OF SANITARY, STORM, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD...
49. THE CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS...
50. FINAL LOCATIONS OF PROPOSED UTILITY POLES, AND/OR POLES TO BE RELOCATED ARE AT THE SOLE DISCRETION OF THE RESPECTIVE UTILITY COMPANY...
51. WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY...
52. THE TOPS OF EXISTING MANHOLES, WELLS, STRUCTURES, AND SANITARY CLEANOUT MUST BE ADJUSTED, AS NECESSARY...
53. THE CONTRACTORS PILING SHALL MAINTAIN AND PRESERVE SANITARY MUST INCLUDE ALL FEES, COSTS, AND APPURTENANCES...
54. ALL WORK ASSOCIATED WITH UTILITY POLES, OVERHEAD WIRES AND ANVIL APPURTENANCES...
55. SEWERS CONVEYING SANITARY FLOW, OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS...
56. WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE...
57. UNLESS INDICATED OTHERWISE, ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. MUST BE INSTALLED UNDERGROUND...
58. UNLESS CLEARLY INDICATED OTHERWISE, ALL STORM PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILTLOTT, TIGHT JOINTS...
59. FOR PIPES GREATER THAN 12" DEEP, POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034...
60. FOR ALL UTILITY PIPING INCLUDING DRAIN WITHIN 10' OF A BUILDING, PIPE MATERIAL SHALL COMPLY WITH APPLICABLE LOCAL, OR STATE BUILDING AND PLUMBING CODES...
61. CONTRACTOR SHALL VERIFY THE CONNECTION OF EXTERIOR PIPING TO ANY FIXTURES SUCH AS AN EXTERIOR GREASE INTERCEPTOR...
62. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY...
63. GAS METERS MUST BE PROTECTED AS REQUIRED BY THE JURISDICTIONAL GAS PROVIDER...

GENERAL GRADING NOTES

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES...
2. SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT...
3. THE CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES...
4. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, OF ANY DISCREPANCIES AND/OR DISCREPANCIES BETWEEN THE PLANS AND INFORMATION OBTAINED THROUGH FIELD VERIFICATIONS...
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ALL UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT...
6. IN THE EVENT OF A DISCREPANCY(IES) AND/OR CONFLICT(S) BETWEEN THE PLANS, OR RELATIVE TO OTHER PLANS, THE GRADING PLAN, PLEASE PRECEDENCE AND NOTES...
7. THE CONTRACTOR IS RESPONSIBLE TO IMPORT FILL OR EXPORT EXCESS MATERIAL AS NECESSARY TO CONFORM TO THE PROPOSED GRADING...
8. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE PAVED GRADE UNLESS OTHERWISE NOTED...
9. THE CONTRACTOR MUST CONFIRM AND ENSURE THAT AS CONTRACTED IMPROVEMENTS CREATE THE FOLLOWING MINIMUM SLOPES (EXCEPT WHERE ADA REQUIREMENTS LIMIT THEM)...
10. MSE OR GRAVITY BLOCK WALLS SHALL BE CONSTRUCTED SUCH THAT UPON COMPLETION OF CONSTRUCTION THERE IS NO UNFINISHED GRADE OR LIFTING RINGS VISIBLE...
11. STORMWATER RUNOFF WITHIN PROPERTY MUST BE COLLECTED ON-SITE WITH NO OVERLAND RUNOFF INTO THE RIGHT-OF-WAY OR ADJACENT PROPERTIES...
12. BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS...
13. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL ADA GUIDELINES AND REQUIREMENTS...
14. FOR ALL RETAINING WALLS (C/T USE ALL OTHER OFFICES USE A 4:1 SLOPE OR GREATER IN HEIGHT)...
15. THE OWNER OR THE OWNER'S CONTRACTOR IS TO PROVIDE A SITE-SPECIFIC RETAINING WALL DESIGN...
16. CONTRACTOR SHALL INSTALL CONCRETE CURB ALONG FACE OF BUILDING / WALL AS SHOWN TO PROVIDE CONSISTENT WIDTH ALONG LENGTH OF PROPOSED ACCESSIBLE RAMP AND RAMP LANDING...
17. CONTRACTOR SHALL REVIEW RETAINING WALL LOCATIONS VERSUS APPLICABLE STATE AND LOCAL CODES...
18. CONTRACTOR SHALL COORDINATE WITH OWNER/OPERATOR TO REVIEW EXISTING DEPRESSIONS WITH EXISTING PAVEMENT AREAS...
19. BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS...
20. THE CONTRACTOR SHALL VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES...
21. ALL FILL COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION...
22. DURING THE INSTALLATION OF SANITARY, STORM, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD...
23. THE CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS...
24. FINAL LOCATIONS OF PROPOSED UTILITY POLES, AND/OR POLES TO BE RELOCATED ARE AT THE SOLE DISCRETION OF THE RESPECTIVE UTILITY COMPANY...
25. WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY...
26. THE TOPS OF EXISTING MANHOLES, WELLS, STRUCTURES, AND SANITARY CLEANOUT MUST BE ADJUSTED, AS NECESSARY...
27. THE CONTRACTORS PILING SHALL MAINTAIN AND PRESERVE SANITARY MUST INCLUDE ALL FEES, COSTS, AND APPURTENANCES...
28. ALL WORK ASSOCIATED WITH UTILITY POLES, OVERHEAD WIRES AND ANVIL APPURTENANCES...
29. SEWERS CONVEYING SANITARY FLOW, OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS...
30. WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE...
31. UNLESS INDICATED OTHERWISE, ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. MUST BE INSTALLED UNDERGROUND...
32. UNLESS CLEARLY INDICATED OTHERWISE, ALL STORM PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILTLOTT, TIGHT JOINTS...
33. FOR PIPES GREATER THAN 12" DEEP, POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034...
34. FOR ALL UTILITY PIPING INCLUDING DRAIN WITHIN 10' OF A BUILDING, PIPE MATERIAL SHALL COMPLY WITH APPLICABLE LOCAL, OR STATE BUILDING AND PLUMBING CODES...
35. CONTRACTOR SHALL VERIFY THE CONNECTION OF EXTERIOR PIPING TO ANY FIXTURES SUCH AS AN EXTERIOR GREASE INTERCEPTOR...
36. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY...
37. GAS METERS MUST BE PROTECTED AS REQUIRED BY THE JURISDICTIONAL GAS PROVIDER...

ADA INSTRUCTIONS TO CONTRACTOR:

- 1. ALL ACCESSIBLE (A.A.) ADA COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12012 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.) AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT...
2. THE CONTRACTOR MUST REVEAL ALL DOCUMENTS REFERENCED IN THESE NOTES AND CONSIDER COMPLIANCE WITH INDUSTRY GUIDELINES...
3. THE CONTRACTOR MUST EXERCISE APPROPRIATE CARE IN THE CONSTRUCTION OF ACCESSIBLE ADA COMPONENTS AND ACCESSIBLE ROUTES FOR THE SITE...
3.1. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SLOPES MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION...
3.2. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 36-INCHES MINIMUM WIDTH (8-INCHES PREFERRED)...
3.3. UNOBSTRUCTED WIDTH OF TRAVEL SURFACES (MINIMUMS) MUST NOT EXCEED 48 INCHES IN WIDTH...
3.4. ACCESSIBLE RAMP MUST BE PROVIDED ALONG THE ACCESSIBLE PATH OF TRAVEL...
3.5. ACCESSIBLE RAMP MUST BE PROVIDED ON THE EXTERIOR SIDE OF ANY DOOR LEADING TO AN ACCESSIBLE PATH OF TRAVEL...
3.6. BEFORE COMMENCING CONSTRUCTION INVOLVING RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ACCESSIBLE COMPONENTS...
3.7. THE CONTRACTOR MUST VERIFY PRIOR TO THE SLOPES OF THE CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE...
3.8. IN ADDITION TO THE ABOVE, THE CONTRACTOR MUST ALSO ENSURE THAT ALL ACCESSIBLE COMPONENTS AND ACCESSIBLE ROUTES ARE CONSTRUCTED IN STRICT ACCORDANCE WITH THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REGULATIONS...

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3. WHEN DEMOLITION RELATED ACTIVITIES MEET ROADWAY AND/OR ROADWAY RIGHT-OF-WAY, THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FEDERAL, STATE, AND LOCAL REGULATIONS...
4. THE DEMOLITION (AND/OR REMOVALS) PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION AND TO IDENTIFY ONLY CONDITIONS REGARDING ITEMS TO BE ACCESSIBLY REMOVED AND/OR DESTROYED...
5. THE CONTRACTOR MUST PROVIDE ALL METHODS AND MEANS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES...
6. ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION...
7. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY, WHICH MUST INCLUDE, BUT IS NOT LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING, OTHER APPROPRIATE AND/OR NECESSARY SAFETY FEATURES AND MEASURES TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION...
8. PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY, THE CONTRACTOR MUST, IN WRITING, RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS AND/OR SPECIFICATIONS...
9. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY COMPANY AND/OR DISCONNECTION AS IDENTIFIED OR REQUIRED FOR THE PROJECT...
10. PRIOR TO COMMENCING ANY DEMOLITION, THE CONTRACTOR MUST OBTAIN ALL REQUIRED PERMITS AND MAINTAIN THE SAME SPECIFIC FOR REVIEW BY THE ENGINEER AND ALL PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT...
11. INSTALL THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE...
12. LOCATE AND PROTECT ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC...
13. PROTECT AND MAINTAIN IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ANY DEMOLITION ACTIVITIES...
14. DEMOLITION ACTIVITIES AND EQUIPMENT MUST NOT USE OR INCLUDE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE...
15. THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES...
16. EXPLOSIVES MUST NOT BE USED WITHOUT THE PRIOR WRITTEN CONSENT FROM BOTH THE OWNER AND ALL APPLICABLE, NECESSARY AND REQUIRED GOVERNMENTAL AGENCIES...
17. THE CONTRACTOR MUST MAINTAIN A RECORD SET OF PLANS WHICH INDICATES THE LOCATION OF EXISTING UTILITIES...
18. THE CONTRACTOR MUST LOCATE AND CLEARLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED...
19. CONTRACTOR SHALL FIELD LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION...
20. CONTRACTOR SHALL INSPECT ALL EXISTING UTILITY STRUCTURES THAT ARE TO REMAIN FOR THE PROJECTS USE...
21. THE CONTRACTOR SHALL REMOVE ANY BUILDING FOUNDATION REMAINS OR ASSOCIATED IMPROVEMENTS...
22. THE CONTRACTOR SHALL VERIFY THE PLANS VERSUS THE LOCATION OF EXISTING STRUCTURES, UTILITIES AND APPURTENANCES...
23. THE CONTRACTOR SHALL MAINTAIN, ADJUST OR INCLUDE EXISTING MONITORING WELLS...
24. WHERE THE LIMIT OF WORK COINCIDES WITH PROPERTY LINE, TREE LINE, PROPOSED SAWCUT OR COMBINATION THEREOF...
25. EXISTING TREES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION...
26. CONTRACTOR SHALL REPAIR/REPLACE ANY TRAFFIC LOOP DETECTORS THAT ARE DAMAGED DURING CONSTRUCTION...
27. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UNDERGROUND UTILITIES...
28. CONTRACTOR SHALL LOCATE ANY EXISTING UTILITY SERVICES THAT ARE TO BE TERMINATED...
29. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE...
30. THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES...
31. PRIOR TO THE COMMENCEMENT OF GENERAL CONSTRUCTION, THE CONTRACTOR MUST INSTALL SOIL EROSION CONTROL AND ANY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES NECESSARY...
32. ALL DIRECTIONAL/TRAFFIC SIGNING AND PAVEMENT STRIPES MUST CONFORM TO THE LATEST STANDARDS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)...
33. THE LOCATIONS OF PROPOSED UTILITY POLES AND/OR LOCALY SIGNED SHOWN ON THE PLANS ARE SCHEMATIC AND PRELIMINARY...
34. WHEN APPLICABLE, OWNER/OPERATOR MUST FILE THE N.D. FOR NPDES PERMITS AT APPROPRIATE AND/OR REQUIRED TIMEFRAMES...
35. ALL CONCRETE MUST BE AIR ENTRAINED AND INCLUDE THE MINIMUM COMPRESSIVE STRENGTH OF JURISDICTIONAL STANDARD PSI AT 28 DAYS...
36. THE CONTRACTOR MUST FILE SITE SIGNAGE APPLICATION OR PERMIT UNDER SEPARATE APPLICATION UNLESS DONE SO AS PART OF JURISDICTIONAL PERMITTING PROCEDURES...
37. THE CONTRACTOR MUST REPAIR OR REPLACE, AT THE CONTRACTORS SOLE COST AND EXPENSE, ALL SIDEWALKS, CURBS, PAVEMENT MARKINGS, AND PAVEMENT DAMAGED BY CONSTRUCTION ACTIVITIES...
38. WORK WITHIN THE RIGHT-OF-WAY MUST BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND STANDARDS...
39. WHEN RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL ELEVATIONS...
40. THE CONTRACTOR IS CAUTIONED OF EXISTING UTILITY SERVICES TO REMAIN IN PROXIMITY TO PROPOSED BOLLARDS AND SIGNS...
41. WHEN RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL ELEVATIONS (TV & BV) REPRESENT THE PROPOSED FINISHED GRADE AT THE FACE OF THE TOP AND BOTTOM OF THE RETAINING WALL...
42. PEER REVIEW AND GLOBAL STABILITY ANALYSIS OF THE RETAINING WALL DESIGN MUST BE COMPLETED BY THE APPLICABLE PROFESSIONAL ENGINEER...
43. CONTRACTOR SHALL INSTALL CONCRETE CURB ALONG FACE OF BUILDING / WALL AS SHOWN TO PROVIDE CONSISTENT WIDTH ALONG LENGTH OF PROPOSED ACCESSIBLE RAMP AND RAMP LANDING...
44. CONTRACTOR SHALL COORDINATE WITH OWNER/OPERATOR TO REVIEW EXISTING DEPRESSIONS WITH EXISTING PAVEMENT AREAS...
45. BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS...
46. THE CONTRACTOR SHALL VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES...
47. ALL FILL COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION...
48. DURING THE INSTALLATION OF SANITARY, STORM, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD...
49. THE CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS...
50. FINAL LOCATIONS OF PROPOSED UTILITY POLES, AND/OR POLES TO BE RELOCATED ARE AT THE SOLE DISCRETION OF THE RESPECTIVE UTILITY COMPANY...
51. WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY...
52. THE TOPS OF EXISTING MANHOLES, WELLS, STRUCTURES, AND SANITARY CLEANOUT MUST BE ADJUSTED, AS NECESSARY...
53. THE CONTRACTORS PILING SHALL MAINTAIN AND PRESERVE SANITARY MUST INCLUDE ALL FEES, COSTS, AND APPURTENANCES...
54. ALL WORK ASSOCIATED WITH UTILITY POLES, OVERHEAD WIRES AND ANVIL APPURTENANCES...
55. SEWERS CONVEYING SANITARY FLOW, OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS...
56. WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE...
57. UNLESS INDICATED OTHERWISE, ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. MUST BE INSTALLED UNDERGROUND...
58. UNLESS CLEARLY INDICATED OTHERWISE, ALL STORM PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILTLOTT, TIGHT JOINTS...
59. FOR PIPES GREATER THAN 12" DEEP, POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034...
60. FOR ALL UTILITY PIPING INCLUDING DRAIN WITHIN 10' OF A BUILDING, PIPE MATERIAL SHALL COMPLY WITH APPLICABLE LOCAL, OR STATE BUILDING AND PLUMBING CODES...
61. CONTRACTOR SHALL VERIFY THE CONNECTION OF EXTERIOR PIPING TO ANY FIXTURES SUCH AS AN EXTERIOR GREASE INTERCEPTOR...
62. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY...
63. GAS METERS MUST BE PROTECTED AS REQUIRED BY THE JURISDICTIONAL GAS PROVIDER...

GENERAL GRADING NOTES

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES...
2. SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT...
3. THE CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES...
4. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, OF ANY DISCREPANCIES AND/OR DISCREPANCIES BETWEEN THE PLANS AND INFORMATION OBTAINED THROUGH FIELD VERIFICATIONS...
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ALL UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT...
6. IN THE EVENT OF A DISCREPANCY(IES) AND/OR CONFLICT(S) BETWEEN THE PLANS, OR RELATIVE TO OTHER PLANS, THE GRADING PLAN, PLEASE PRECEDENCE AND NOTES...
7. THE CONTRACTOR IS RESPONSIBLE TO IMPORT FILL OR EXPORT EXCESS MATERIAL AS NECESSARY TO CONFORM TO THE PROPOSED GRADING...
8. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE PAVED GRADE UNLESS OTHERWISE NOTED...
9. THE CONTRACTOR MUST CONFIRM AND ENSURE THAT AS CONTRACTED IMPROVEMENTS CREATE THE FOLLOWING MINIMUM SLOPES (EXCEPT WHERE ADA REQUIREMENTS LIMIT THEM)...
10. MSE OR GRAVITY BLOCK WALLS SHALL BE CONSTRUCTED SUCH THAT UPON COMPLETION OF CONSTRUCTION THERE IS NO UNFINISHED GRADE OR LIFTING RINGS VISIBLE...
11. STORMWATER RUNOFF WITHIN PROPERTY MUST BE COLLECTED ON-SITE WITH NO OVERLAND RUNOFF INTO THE RIGHT-OF-WAY OR ADJACENT PROPERTIES...
12. BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS...
13. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL ADA GUIDELINES AND REQUIREMENTS...
14. FOR ALL RETAINING WALLS (C/T USE ALL OTHER OFFICES USE A 4:1 SLOPE OR GREATER IN HEIGHT)...
15. THE OWNER OR THE OWNER'S CONTRACTOR IS TO PROVIDE A SITE-SPECIFIC RETAINING WALL DESIGN...
16. CONTRACTOR SHALL INSTALL CONCRETE CURB ALONG FACE OF BUILDING / WALL AS SHOWN TO PROVIDE CONSISTENT WIDTH ALONG LENGTH OF PROPOSED ACCESSIBLE RAMP AND RAMP LANDING...
17. CONTRACTOR SHALL REVIEW RETAINING WALL LOCATIONS VERSUS APPLICABLE STATE AND LOCAL CODES...
18. CONTRACTOR SHALL COORDINATE WITH OWNER/OPERATOR TO REVIEW EXISTING DEPRESSIONS WITH EXISTING PAVEMENT AREAS...
19. BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS...
20. THE CONTRACTOR SHALL VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES...
21. ALL FILL COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION...
22. DURING THE INSTALLATION OF SANITARY, STORM, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD...
23. THE CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS...
24. FINAL LOCATIONS OF PROPOSED UTILITY POLES, AND/OR POLES TO BE RELOCATED ARE AT THE SOLE DISCRETION OF THE RESPECTIVE UTILITY COMPANY...
25. WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY...
26. THE TOPS OF EXISTING MANHOLES, WELLS, STRUCTURES, AND SANITARY CLEANOUT MUST BE ADJUSTED, AS NECESSARY...
27. THE CONTRACTORS PILING SHALL MAINTAIN AND PRESERVE SANITARY MUST INCLUDE ALL FEES, COSTS, AND APPURTENANCES...
28. ALL WORK ASSOCIATED WITH UTILITY POLES, OVERHEAD WIRES AND ANVIL APPURTENANCES...
29. SEWERS CONVEYING SANITARY FLOW, OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS...
30. WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE...
31. UNLESS INDICATED OTHERWISE, ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. MUST BE INSTALLED UNDERGROUND...
32. UNLESS CLEARLY INDICATED OTHERWISE, ALL STORM PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILTLOTT, TIGHT JOINTS...
33. FOR PIPES GREATER THAN 12" DEEP, POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034...
34. FOR ALL UTILITY PIPING INCLUDING DRAIN WITHIN 10' OF A BUILDING, PIPE MATERIAL SHALL COMPLY WITH APPLICABLE LOCAL, OR STATE BUILDING AND PLUMBING CODES...
35. CONTRACTOR SHALL VERIFY THE CONNECTION OF EXTERIOR PIPING TO ANY FIXTURES SUCH AS AN EXTERIOR GREASE INTERCEPTOR...
36. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY...
37. GAS METERS MUST BE PROTECTED AS REQUIRED BY THE JURISDICTIONAL GAS PROVIDER...

ADA INSTRUCTIONS TO CONTRACTOR:

- 1. ALL ACCESSIBLE (A.A.) ADA COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12012 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.) AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT...
2. THE CONTRACTOR MUST REVEAL ALL DOCUMENTS REFERENCED IN THESE NOTES AND CONSIDER COMPLIANCE WITH INDUSTRY GUIDELINES...
3. THE CONTRACTOR MUST EXERCISE APPROPRIATE CARE IN THE CONSTRUCTION OF ACCESSIBLE ADA COMPONENTS AND ACCESSIBLE ROUTES FOR THE SITE...
3.1. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SLOPES MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION...
3.2. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 36-INCHES MINIMUM WIDTH (8-INCHES PREFERRED)...
3.3. UNOBSTRUCTED WIDTH OF TRAVEL SURFACES (MINIMUMS) MUST NOT EXCEED 48 INCHES IN WIDTH...
3.4. ACCESSIBLE RAMP MUST BE PROVIDED ALONG THE ACCESSIBLE PATH OF TRAVEL...
3.5. ACCESSIBLE RAMP MUST BE PROVIDED ON THE EXTERIOR SIDE OF ANY DOOR LEADING TO AN ACCESSIBLE PATH OF TRAVEL...
3.6. BEFORE COMMENCING CONSTRUCTION INVOLVING RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ACCESSIBLE COMPONENTS...
3.7. THE CONTRACTOR MUST VERIFY PRIOR TO THE SLOPES OF THE CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE...
3.8. IN ADDITION TO THE ABOVE, THE CONTRACTOR MUST ALSO ENSURE THAT ALL ACCESSIBLE COMPONENTS AND ACCESSIBLE ROUTES ARE CONSTRUCTED IN STRICT ACCORDANCE WITH THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REGULATIONS...

GENERAL DEMOLITION NOTES

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES...
2. THE CONTRACTOR MUST CONDUCT DEMOLITION/REMOVALS ACTIVITIES IN SUCH A MANNER AS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND ALL OTHER ADJACENT FACILITIES...
3. WHEN DEMOLITION RELATED ACTIVITIES MEET ROADWAY AND/OR ROADWAY RIGHT-OF-WAY, THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FEDERAL, STATE, AND LOCAL REGULATIONS...
4. THE DEMOLITION (AND/OR REMOVALS) PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION AND TO IDENTIFY ONLY CONDITIONS REGARDING ITEMS TO BE ACCESSIBLY REMOVED AND/OR DESTROYED...
5. THE CONTRACTOR MUST PROVIDE ALL METHODS AND MEANS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES...
6. ENGINEER OF RECORD AND BOHLER ARE NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION...
7. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY, WHICH MUST INCLUDE, BUT IS NOT LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING, OTHER APPROPRIATE AND/OR NECESSARY SAFETY FEATURES AND MEASURES TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION...
8. PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY, THE CONTRACTOR MUST, IN WRITING, RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS AND/OR SPECIFICATIONS...
9. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY COMPANY AND/OR DISCONNECTION AS IDENTIFIED OR REQUIRED FOR THE PROJECT...
10. PRIOR TO COMMENCING ANY DEMOLITION, THE CONTRACTOR MUST OBTAIN ALL REQUIRED PERMITS AND MAINTAIN THE SAME SPECIFIC FOR REVIEW BY THE ENGINEER AND ALL PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT...
11. INSTALL THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE...
12. LOCATE AND PROTECT ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC...
13. PROTECT AND MAINTAIN IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ANY DEMOLITION ACTIVITIES...
14. DEMOLITION ACTIVITIES AND EQUIPMENT MUST NOT USE OR INCLUDE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE...
15. THE CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES...
16. EXPLOSIVES MUST NOT BE USED WITHOUT THE PRIOR WRITTEN CONSENT FROM BOTH THE OWNER AND ALL APPLICABLE, NECESSARY AND REQUIRED GOVERNMENTAL AGENCIES...
17. THE CONTRACTOR MUST MAINTAIN A RECORD SET OF PLANS WHICH INDICATES THE LOCATION OF EXISTING UTILITIES...
18. THE CONTRACTOR MUST LOCATE AND CLEARLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED...
19. CONTRACTOR SHALL FIELD LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION...
20. CONTRACTOR SHALL INSPECT ALL EXISTING UTILITY STRUCTURES THAT ARE TO REMAIN FOR THE PROJECTS USE...
21. THE CONTRACTOR SHALL REMOVE ANY BUILDING FOUNDATION REMAINS OR ASSOCIATED IMPROVEMENTS...
22. THE CONTRACTOR SHALL VERIFY THE PLANS VERSUS THE LOCATION OF EXISTING STRUCTURES, UTILITIES AND APPURTENANCES...
23. THE CONTRACTOR SHALL MAINTAIN, ADJUST OR INCLUDE EXISTING MONITORING WELLS...
24. WHERE THE LIMIT OF WORK COINCIDES WITH PROPERTY LINE, TREE LINE, PROPOSED SAWCUT OR COMBINATION THEREOF...
25. EXISTING TREES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION...
26. CONTRACTOR SHALL REPAIR/REPLACE ANY TRAFFIC LOOP DETECTORS THAT ARE DAMAGED DURING CONSTRUCTION...
27. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UNDERGROUND UTILITIES...
28. CONTRACTOR SHALL LOCATE ANY EXISTING UTILITY SERVICES THAT ARE TO BE TERMINATED...
29. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE...
30. THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES...
31. PRIOR TO THE COMMENCEMENT OF GENERAL CONSTRUCTION, THE CONTRACTOR MUST INSTALL SOIL EROSION CONTROL AND ANY STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES NECESSARY...
32. ALL DIRECTIONAL/TRAFFIC SIGNING AND PAVEMENT STRIPES MUST CONFORM TO THE LATEST STANDARDS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)...
33. THE LOCATIONS OF PROPOSED UTILITY POLES AND/OR LOCALY SIGNED SHOWN ON THE PLANS ARE SCHEMATIC AND PRELIMINARY...
34. WHEN APPLICABLE, OWNER/OPERATOR MUST FILE THE N.D. FOR NPDES PERMITS AT APPROPRIATE AND/OR REQUIRED TIMEFRAMES...
35. ALL CONCRETE MUST BE AIR ENTRAINED AND INCLUDE THE MINIMUM COMPRESSIVE STRENGTH OF JURISDICTIONAL STANDARD PSI AT 28 DAYS...
36. THE CONTRACTOR MUST FILE SITE SIGNAGE APPLICATION OR PERMIT UNDER SEPARATE APPLICATION UNLESS DONE SO AS PART OF JURISDICTIONAL PERMITTING PROCEDURES...
37. THE CONTRACTOR MUST REPAIR OR REPLACE, AT THE CONTRACTORS SOLE COST AND EXPENSE, ALL SIDEWALKS, CURBS, PAVEMENT MARKINGS, AND PAVEMENT DAMAGED BY CONSTRUCTION ACTIVITIES...
38. WORK WITHIN THE RIGHT-OF-WAY MUST BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND STANDARDS...
39. WHEN RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL ELEVATIONS...
40. THE CONTRACTOR IS CAUTIONED OF EXISTING UTILITY SERVICES TO REMAIN IN PROXIMITY TO PROPOSED BOLLARDS AND SIGNS...
41. WHEN RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL ELEVATIONS (TV & BV) REPRESENT THE PROPOSED FINISHED GRADE AT THE FACE OF THE TOP AND BOTTOM OF THE RETAINING WALL...
42. PEER REVIEW AND GLOBAL STABILITY ANALYSIS OF THE RETAINING WALL DESIGN MUST BE COMPLETED BY THE APPLICABLE PROFESSIONAL ENGINEER...
43. CONTRACTOR SHALL INSTALL CONCRETE CURB ALONG FACE OF BUILDING / WALL AS SHOWN TO PROVIDE CONSISTENT WIDTH ALONG LENGTH OF PROPOSED ACCESSIBLE RAMP AND RAMP LANDING...
44. CONTRACTOR SHALL COORDINATE WITH OWNER/OPERATOR TO REVIEW EXISTING DEPRESSIONS WITH EXISTING PAVEMENT AREAS...
45. BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS...
46. THE CONTRACTOR SHALL VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES...
47. ALL FILL COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION...
48. DURING THE INSTALLATION OF SANITARY, STORM, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD...
49. THE CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS...
50. FINAL LOCATIONS OF PROPOSED UTILITY POLES, AND/OR POLES TO BE RELOCATED ARE AT THE SOLE DISCRET

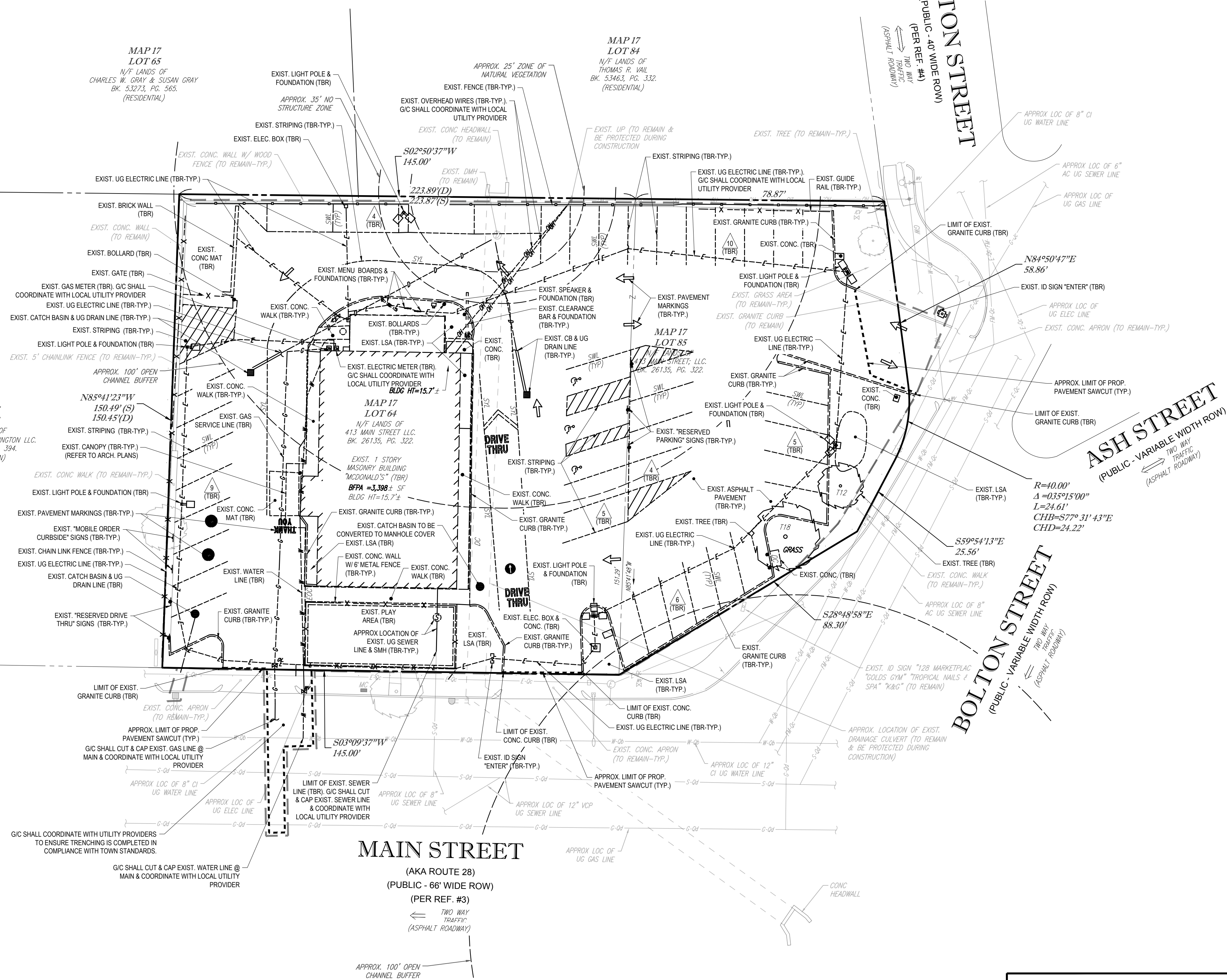


MAP 17
LOT 65
N/F LANDS OF
CHARLES W. GRAY & SUSAN GRAY
BK. 53273, PG. 565.
(RESIDENTIAL)

MAP 17
LOT 84
N/F LANDS OF
THOMAS R. VAL
BK. 53463, PG. 332.
(RESIDENTIAL)

MAP 17
LOT 63
N/F LANDS OF
GRAY'S MAIN & WASHINGTON LLC.
BK. 41722, PG. 394.
(GAS STATION)

MAP 17
LOT 64
N/F LANDS OF
413 MAIN STREET LLC.
BK. 28135, PG. 322.

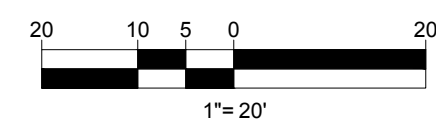


ALL EXISTING ITEMS ARE TO BE REMOVED WITHIN THE LIMIT OF WORK/DISTURBANCE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL CONFIRM ALL UTILITY & DRAINAGE LOCATIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IN WRITING IF ANY CONFLICTS OCCUR.

REFER TO GENERAL NOTES SHEET FOR DEMOLITION NOTES

THIS PLAN TO BE UTILIZED FOR DEMOLITION/REMOVAL PURPOSES ONLY



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

BOHLER //

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

| | |
|--------------------|---------------------|
| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: | W222000 |
| CAD I.D. #: | W222000-SPPD-5a.dwg |

| | |
|-----------------------------------|--|
| STREET ADDRESS 413 MAIN STREET | |
| CITY READING | STATE MA |
| COUNTY MIDDLESEX | |
| SITE I.D. 20-0015 | PLAN DESCRIPTION DEMOLITION PLAN |

| | | |
|--------------|--------------|-----|
| STATUS | DATE | BY |
| DRAWN BY: | 04/28/2023 | CSE |
| PLAN CHECKED | - | - |
| AS-BUILT | - | - |
| SHEET NO. | C-201 | |
| | OF 15 | |



McDonald's

BOSTON REGION
110 N CARPENTER ST
CHICAGO, IL 60687

| | |
|---------------------------|------|
| PLAN APPROVALS | DATE |
| SIGNATURE | |
| APPROVED MCDONALD'S AGENT | |

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------------|
| 1 | 06/12/2023 | REV. PER ZBA & ABITTERS FEEDBACK |
| 2 | 08/09/2023 | REV. FOR CPDC SUBMITTAL |
| 3 | 10/02/2023 | REV. FOR CPDC SUBMITTAL |
| 4 | 10/18/2023 | REV. FOR CPDC COMMENTS |
| 5 | 12/15/2023 | REV. FOR TOWN COMMENTS |



SITE INFORMATION

- APPLICANT:
McDONALD'S USA, LLC
110 N CARPENTER STREET
CHICAGO, IL 60607
- OWNER:
413 MAIN STREET, LLC
10 JEAN AVE #2
CHELMSFORD, MA 01824
- PARCEL:
MAP 17, LOT 64 & 65
413 MAIN STREET
READING, MA 01867

ZONING ANALYSIS TABLE

| ZONING DISTRICT | BUSINESS B DISTRICT | | |
|--|--|------------|------------|
| | REQUIRED | EXISTING | PROPOSED |
| MIN. LOT AREA | N/A | ±32,378 SF | NO CHANGE |
| MIN. LOT FRONTAGE | N/A | ±342.33 FT | NO CHANGE |
| MAX. BLDG COVERAGE | 85% | 10.5% | 12.3% |
| MIN. FRONT SETBACK | 5 FT | 26.6 FT | 22.6 FT |
| MIN. SIDE SETBACK | N/A | 41.8 FT | 36.9 FT |
| MIN. SIDE SETBACK (ABUTTING RESIDENTIAL LOT) | 10 FT | 41.8 FT | 38.7 FT |
| MIN. REAR SETBACK | 20 FT | N/A | N/A |
| MAX. BUILDING HEIGHT | 45 FT | ±15.7 FT | < 45 FT |
| MIN. DRIVE-THRU STACKING | 198 FT | ±242 FT | ±295.9 FT* |
| MIN. DRIVE-THRU STACKING; ORDER POINT TO PICKUP | 90 FT | ±105.8 FT | ±187.3 FT |
| MIN. DRIVE-THRU STACKING; EXITING ONTO ROAD | 54 FT | ±55.2 FT | ±58.4 FT |
| LOADING SPACES | 2 | 1 (E) | 1 (W) |
| PARKING SPACES | 23 | 43 | 30 |
| ACCESS. PARKING SPACES | 2 | 3 | 2 |
| PARKING STALL CRITERIA STANDARD: 9 FT x 18 FT COMPACT: 8 FT x 16 FT | USE/CATEGORY: RESTAURANT REQUIRED PARKING: 1 SPACE PER 4 SEATS PLUS ONE SPACE PER EMPLOYEE ON THE LARGEST SHIFT CALCULATION: (1 SPACE / 4 SEATS) X 44 SEATS = 11 SPACES (1 SPACE / EMPLOYEE) X 12 EMPLOYEES = 12 11 + 12 = 23 SPACES | | |
| ACCESSIBLE PARKING CRITERIA STANDARD: 5 FT x 18 FT STALL (MIN.) 5 FT x 18 FT AISLE (MIN.) VAL: 8 FT x 18 FT STALL (MIN.) 8 FT x 18 FT AISLE (MIN.) | 26-50 SPACES = 2 MIN. ACCESSIBLE SPACES 1 ACCESSIBLE VAN SPACE PER 6 STANDARD ACCESSIBLE SPACES (MIN.) | | |

* - ADDITIONAL ±225 LF OF STACKING FROM DRIVE-THRU ENTRANCE TO MAIN STREET AND BOLTON STREET RIGHT-OF-WAY

SIGN SUMMARY TABLE

| TYPE | ALLOWED | EXISTING | PROPOSED |
|-------------------------------|--|-----------------------------|---|
| SITE SIGNAGE | | | |
| FREESTANDING I.D. SIGN | 1 SIGN @ MAX. 35 SF, MAX. 10.5 FT IN HEIGHT, SIDEYARD SETBACK OF 20 FT | NONE | 1 "5" MAIN ID" MONUMENT SIGN @ 25 SF, 7 FT IN HEIGHT (SP) |
| BUILDING SIGNAGE | | | |
| FRONT WALL SIGN | | 1 "MCDONALD'S" SIGN @ 34 SF | 1 "M" LOGO @ 14 SF |
| NON DRIVE THRU WALL SIGN | | NONE | 1 "M" LOGO @ 14 SF |
| DRIVE THRU WALL SIGN | 2 WALL MOUNTED SIGNS @ 2 SF PER LF OF FACADE | NONE | NONE |
| REAR WALL SIGN | | NONE | NONE |
| TOTAL BUILDING SIGNAGE | 2 SIGNS @ ±265 SF | 1 SIGN @ 34 SF | 2 SIGNS @ 24 SF |
| DRIVE-THRU SIGNAGE | | | |
| DRIVE-THRU SIGNAGE | 3 MENU BOARDS PERMITTED | 3 EXISTING | 2 DIGITAL MENU BOARDS @ 220 SF 1 DIGITAL PRE-BROWSE BOARD @ ±10 SF (V) |

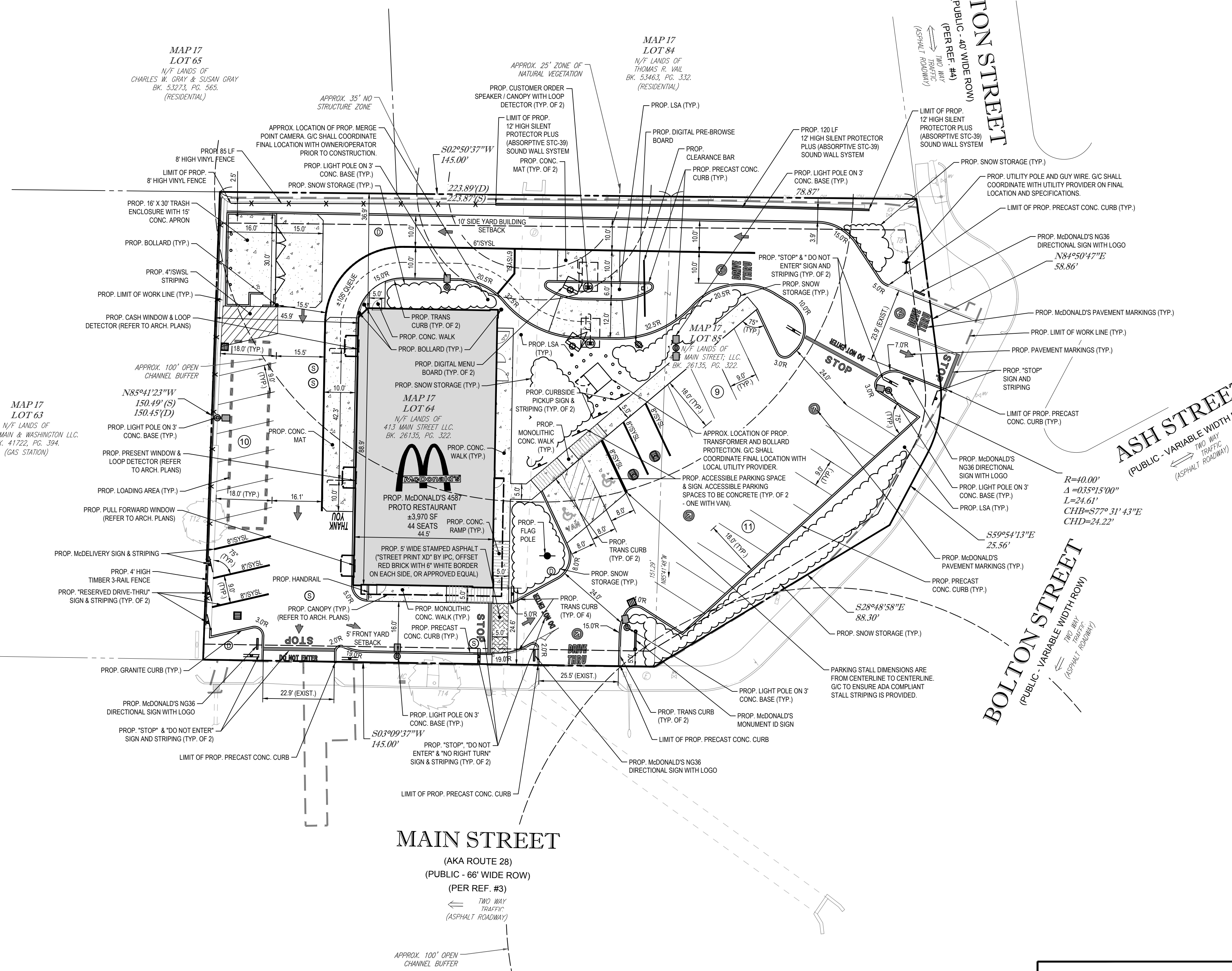
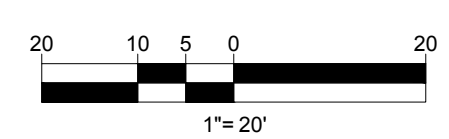
NOTE: ALL SIGNS AREAS ARE "BOXED" FOR CALCULATIONS
(SP) - SPECIAL PERMIT REQUIRED
(V) - VARIANCE APPROVED 7/25/2023

PAVEMENT STRIPING LEGEND

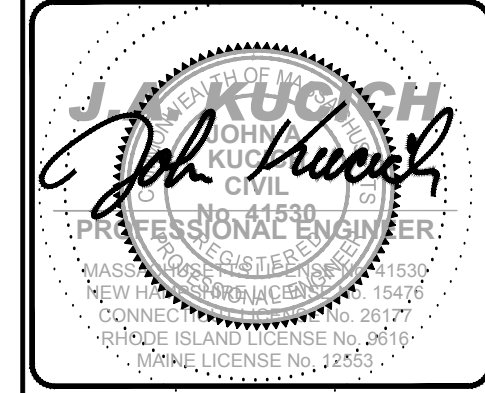
- 4" D/S/L = 4" DOUBLE YELLOW SOLID LINE
- 6" S/S/L = 6" SINGLE YELLOW SOLID LINE
- 8" S/S/L = 8" SINGLE YELLOW SOLID LINE
- 4" W/S/L = 4" SINGLE WHITE SOLID LINE

MAINTENANCE OF A CLEAR SIGHT LINE IS THE RESPONSIBILITY OF THE PROPERTY OWNER

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES



| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------------|
| 1 | 06/12/2023 | REV. PER ZBA & ABUTTERS FEEDBACK |
| 2 | 08/09/2023 | REV. FOR CPDC SUBMITTAL |
| 3 | 10/02/2023 | REV. FOR CPDC SUBMITTAL |
| 4 | 10/18/2023 | REV. FOR CPDC COMMENTS |
| 5 | 12/15/2023 | REV. FOR TOWN COMMENTS |



McDonald's

110 N CARPENTER ST
CHICAGO, IL 60607

OFFICE ADDRESS

| PLAN APPROVALS | SIGNATURE | DATE | BY |
|----------------|----------------------------|------|-------|
| | APPROVED: MCDONALD'S AGENT | | |
| STATUS | DATE | BY | |
| DRAWN BY: | 04/28/2023 | CSE | |
| PLAN CHECKED | - | - | |
| AS-BUILT | | | |
| SHEET NO. | C-301 | | OF 15 |

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SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

COMPLIANCE CHECK DATE
CONSTRUCTION CHECK DATE
CONSTRUCTION CHECK DATE

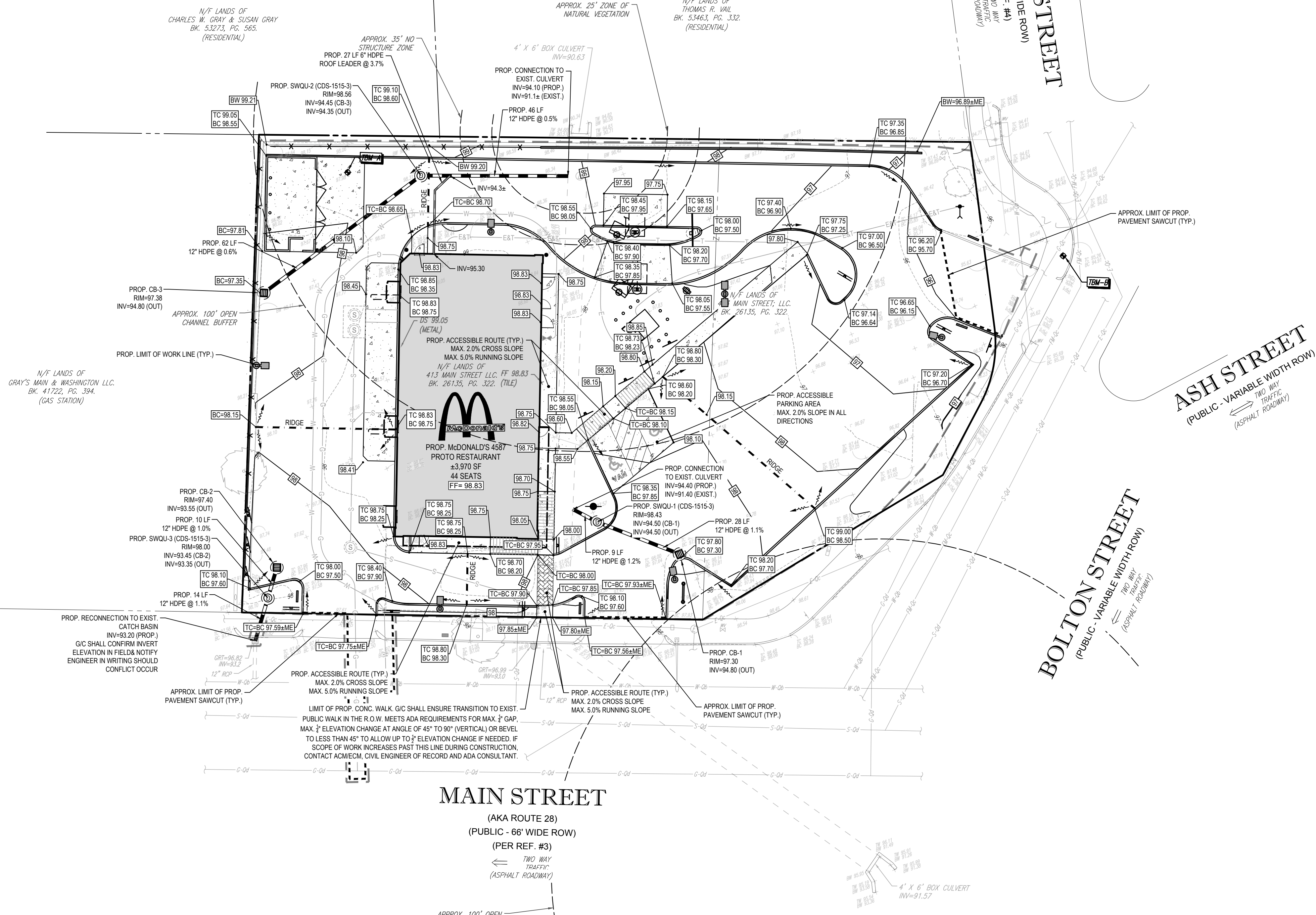
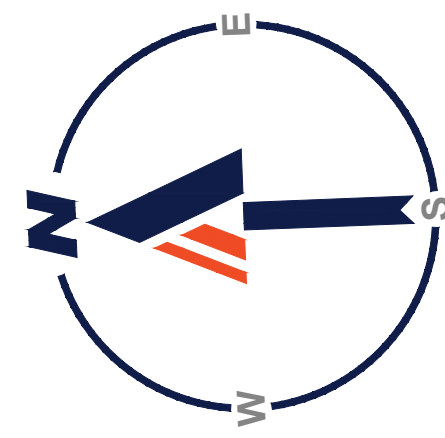
PROJECT No.: W222000
CAD I.D. #: W222000-SPPD-5a.dwg

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| STREET ADDRESS 413 MAIN STREET | |
| CITY READING | STATE MA |
| COUNTY MIDDLESEX | |
| SITE I.D. 20-0015 | PLAN DESCRIPTION SITE LAYOUT PLAN |

811 Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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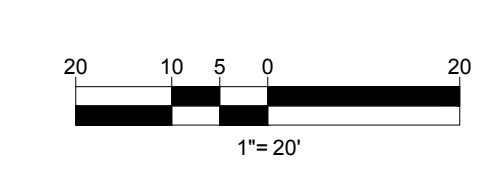


LIMIT OF PROP. CONC. WALK: G/C SHALL ENSURE TRANSITION TO EXIST. PUBLIC WALK IN THE R.O.W. MEETS ADA REQUIREMENTS FOR MAX. 2" GAP. MAX. 2" ELEVATION CHANGE AT ANGLE OF 45° TO 90° (VERTICAL) OR BEVEL TO LESS THAN 45° TO ALLOW UP TO 2" ELEVATION CHANGE IF NEEDED. IF SCOPE OF WORK INCREASES PAST THIS LINE DURING CONSTRUCTION, CONTACT AC/CEM, CIVIL ENGINEER OF RECORD AND ADA CONSULTANT.

CONTRACTOR SHALL CONFIRM ALL UTILITY & DRAINAGE LOCATIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IN WRITING IF ANY CONFLICTS OCCUR.

5.0' X 5.0' (MIN.) LEVEL LANDING (<2.0% SLOPE IN ANY DIRECTION) AREA TO BE PROVIDED AT ALL DOORS & TOP & BOTTOM OF ALL RAMPS.

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL GRADING & UTILITY NOTES



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| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: | W222000 |
| CAD I.D. #: | W222000-SPPD-5a.dwg |

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| STREET ADDRESS 413 MAIN STREET | |
| CITY READING | STATE MA |
| COUNTY MIDDLESEX | |
| SITE I.D. 20-0015 | PLAN DESCRIPTION GRADING & DRAINAGE PLAN |

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|--------------|--------------|-----|
| STATUS | DATE | BY |
| DRAWN BY: | 04/28/2023 | CSE |
| PLAN CHECKED | - | - |
| AS-BUILT | - | - |
| SHEET No. | C-401 | |
| | OF 15 | |



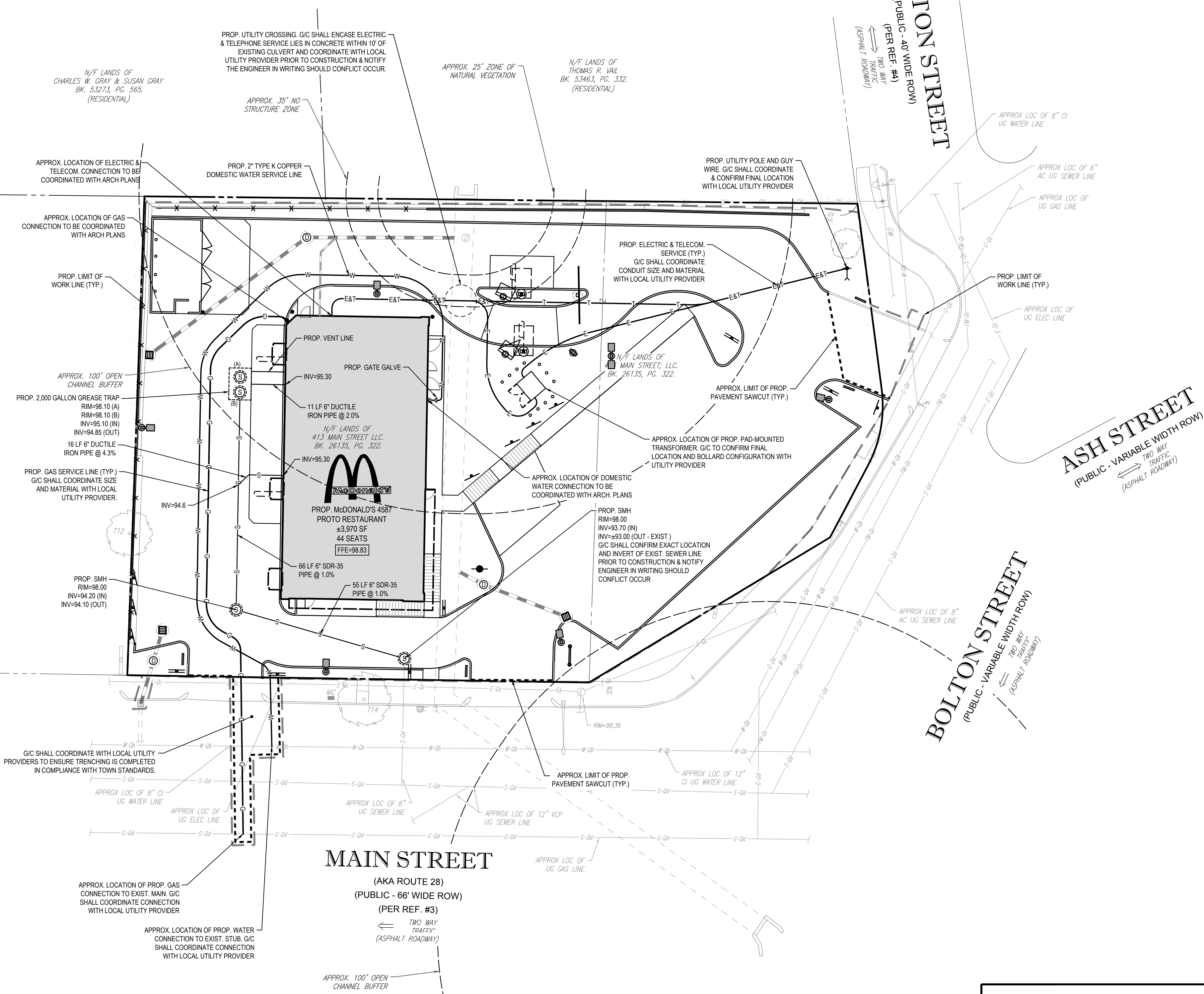
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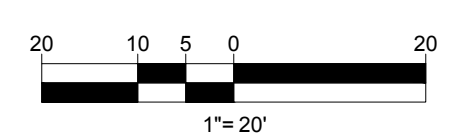
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| PLAN APPROVALS | DATE |
| SIGNATURE | |
| APPROVED MCDONALD'S AGENT | |

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------------|
| 1 | 06/12/2023 | REV. PER ZBA & ABITTERS FEEDBACK |
| 2 | 08/09/2023 | REV. FOR CPDC SUBMITTAL |
| 3 | 10/03/2023 | REV. FOR CPDC SUBMITTAL |
| 4 | 10/18/2023 | REV. FOR CPDC COMMENTS |
| 5 | 12/15/2023 | REV. FOR TOWN COMMENTS |



CONTRACTOR SHALL CONFIRM ALL UTILITY & DRAINAGE LOCATIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IN WRITING IF ANY CONFLICTS OCCUR.

THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL GRADING & UTILITY NOTES



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| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: | W222000 |
| CAD I.D. #: | W222000-SPPD-5a.dwg |

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| STREET ADDRESS 413 MAIN STREET | |
| CITY READING | STATE MA |
| COUNTY MIDDLESEX | |
| SITE I.D. 20-0015 | PLAN DESCRIPTION UTILITY PLAN |

| REV | DATE | DESCRIPTION |
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| DRAWN BY: | 04/28/2023 | CSE |
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| SHEET No. | C-501 | |
| | OF 15 | |

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N/4 LANDS OF CHARLES W. GRAY & SUSAN GRAY BK. 53273, PG. 565. (RESIDENTIAL)

APPROX. 35' NO STRUCTURE ZONE

APPROX. 25' ZONE OF NATURAL VEGETATION

N/4 LANDS OF THOMAS R. VAIL BK. 53463, PG. 332. (RESIDENTIAL)

BOLTON STREET (PUBLIC - 40' WIDE ROW) (PER REF. #4)

ASH STREET (PUBLIC - VARIABLE WIDTH ROW) (TWO WAY TRAFFIC) (ASPHALT ROADWAY)

BOLTON STREET (PUBLIC - VARIABLE WIDTH ROW) (TWO WAY TRAFFIC) (ASPHALT ROADWAY)

N/4 LANDS OF GRAY'S MAIN & WASHINGTON LLC. BK. 41722, PG. 394. (GAS STATION)

N/4 LANDS OF 413 MAIN STREET LLC. BK. 26135, PG. 322.
PROP. McDONALD'S 4587 PROTO RESTAURANT
 ±3,970 SF
 44 SEATS
 FF= 98.83
 AREA OF DISTURBANCE = ±31,700 SF

PROP. INLET PROTECTION (TYP.)

PROP. INLET PROTECTION TO BE PROVIDED AT EXIST. CATCH BASINS PRIOR TO REMOVING

APPROX. 100' OPEN CHANNEL BUFFER

PROP. LIMIT OF WORK LINE (TYP.)

PROP. CONSTRUCTION EXIT (TYP.)

PROP. INLET PROTECTION (TYP.)

PROP. SILT FENCE (TYP.)

PROP. INLET PROTECTION (TYP.)

LIMIT OF PROP. SILT FENCE

APPROX. LIMIT OF PROP. PAVEMENT SAWCUT (TYP.)

LIMIT OF PROP. SILT FENCE

PROP. SILT FENCE (TYP.)

PROP. INLET PROTECTION (TYP.)

LIMIT OF PROP. SILT FENCE

APPROX. LIMIT OF PROP. PAVEMENT SAWCUT (TYP.)

LIMIT OF PROP. SILT FENCE

PROP. SILT FENCE (TYP.)

LIMIT OF PROP. SILT FENCE

APPROX. LIMIT OF PROP. PAVEMENT SAWCUT (TYP.)

MAIN STREET (AKA ROUTE 28) (PUBLIC - 66' WIDE ROW) (PER REF. #3)

TWO WAY TRAFFIC (ASPHALT ROADWAY)

APPROX. 100' OPEN CHANNEL BUFFER

PROP. TREE PROTECTION FENCE

LIMIT OF PROP. SILT FENCE

PROP. CONSTRUCTION EXIT (TYP.)

LIMIT OF PROP. SILT FENCE

PROP. SILT FENCE (TYP.)

LIMIT OF PROP. SILT FENCE

APPROX. LIMIT OF PROP. PAVEMENT SAWCUT (TYP.)

LIMIT OF PROP. SILT FENCE

PROP. TEMPORARY SOIL STOCKPILE AREA SURROUNDED BY STRAW BALES AND SILT FENCE

PROP. SILT FENCE (TYP.)

LIMIT OF PROP. SILT FENCE

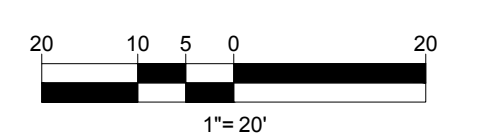
PROP. SILT FENCE (TYP.)

LIMIT OF PROP. SILT FENCE

APPROX. LIMIT OF PROP. PAVEMENT SAWCUT (TYP.)

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

REFER TO SOIL EROSION CONTROL NOTES & DETAIL SHEET FOR EROSION NOTES AND DETAILS



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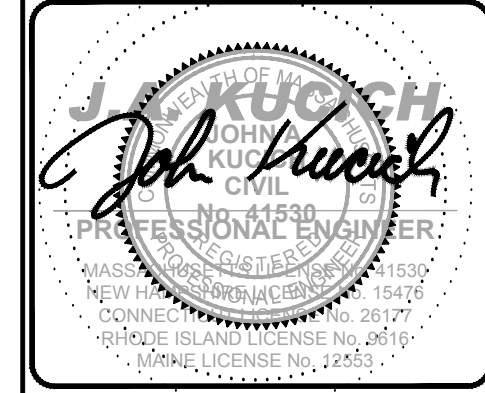
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| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: | W222000 |
| CAD I.D. #: | W222000-SPPD-5a.dwg |

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| STREET ADDRESS 413 MAIN STREET | |
| CITY READING | STATE MA |
| COUNTY MIDDLESEX | |
| SITE I.D. 20-0015 | PLAN DESCRIPTION SOIL EROSION & SEDIMENT CONTROL PLAN |

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| STATUS | DATE | BY |
| DRAWN BY: | 04/28/2023 | CSE |
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| REV | DATE | DESCRIPTION |
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| 1 | 08/12/2023 | REV. PER ZBA & ABITTERS FEEDBACK |
| 2 | 08/09/2023 | REV. FOR CPDC SUBMITTAL |
| 3 | 10/03/2023 | REV. FOR CPDC SUBMITTAL |
| 4 | 10/18/2023 | REV. FOR CPDC COMMENTS |
| 5 | 12/15/2023 | REV. FOR TOWN COMMENTS |

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EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. AT A MINIMUM, AREAS SHALL BE PERMANENTLY STABILIZED ACCORDING TO THE CURRENT EDITION OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), OR IN THE ABSENCE OF A SWPPP, THEY SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
- SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 8%.
- INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED. FOR SEDIMENT CONTROL DEVICES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE DEVICES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1) UNLESS OTHERWISE INDICATED ON THE PLANS. SLOPE PROTECTION FOR SLOPES GREATER THAN 2:1 SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER.
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL STANDARDS.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
 - SIX INCHES, OR DEPTH SPECIFIED ON THE LANDSCAPE PLAN, OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
 - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (188 LB PER 1,000 SF).
 - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN. QUALITY SOG MAY BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1. SOG ON SLOPES STEEPER THAN 3:1 SHOULD BE PEGGED.
 - STRAW MULCH AT THE RATE OF 70-90 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER WILL BE USED ON STRAW MULCH FOR WIND CONTROL.

- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS 70% STABILIZED. FOR EROSION CONTROL MEASURES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE MEASURES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, COMPOST TUBES, SILT FENCE OR A COMBINATION THEREOF.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.

| LOCATION PROTECTED AREA | MULCH STRAW | MULCH RATE (1000 SF) |
|--|---|---------------------------|
| WINDY AREA | SHREDDED OR CHOPPED CORNSTALKS STRAW (ANCHORED) | 185-275 POUNDS 100 POUNDS |
| MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1 | JUTE MESH OR EXCELSIOR MAT | AS REQUIRED |
| GREATER THAN 3:1 | (REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT) | |

* A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER SHALL BE USED TO ADDITIONAL WIND CONTROL.

* MULCH ANCHORING: ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YDBLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK, WETTING FOR SMALL AREAS AND ROAD DITCHES WILL BE PERMITTED.

- PROPER LOCATIONS OF SURFACE STORMWATER MANAGEMENT BASINS CAN BE UTILIZED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION. SEDIMENT TRAPS SHALL BE SIZED AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- TEMPORARY SEDIMENT TRAPS SHALL BE SIZED PER THE CURRENT EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND PROVIDE A MINIMUM OF 1,800 CF PER ACRE OF TRIBUTARY AREA WITH A MAXIMUM TRIBUTARY AREA OF 5 ACRES. MAINTAIN A 2:1 LENGTH TO WIDTH RATIO, AND NOT EXCEED 5 FT IN HEIGHT. UPON SITE STABILIZATION, ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE TEMPORARY SEDIMENT TRAP EXCAVATED TO 1 FOOT BELOW THE TRAP. THE AREA SHALL THEN BE SCARIFIED TO PREVENT COMPACTION AND PROMOTE INFILTRATION, AND GRADED AND STABILIZED IN ACCORDANCE WITH THE GRADING AND LANDSCAPE PLANS.

- STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
- EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.

THE CONTRACTOR MUST PERFORM DEWATERING (IF REQUIRED), IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR THE COSTS ASSOCIATED WITH ANY AND ALL NECESSARY DISCHARGE PERMITS ASSOCIATED WITH SAME.

- THE CONTRACTOR MUST LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS TO MINIMIZE EXPOSURE TO STORMWATER. THE CONTRACTOR MUST IMMEDIATELY PLACE CONSTRUCTION WASTE IN ON-SITE STORAGE CONTAINERS UNTIL THAT CONSTRUCTION WASTE IS READY FOR OFF-SITE DISPOSAL. THE CONTRACTOR MUST MAINTAIN SPILL PREVENTION AND RESPONSE EQUIPMENT AND MAKE SAME CONTINUOUSLY AVAILABLE FOR USE BY THE CONTRACTOR'S EMPLOYEES WHO MUST BE PROPERLY TRAINED IN THE APPLICATION OF SPILL PREVENTION AND RESPONSE PROCEDURES.

- EROSION CONTROL NOTES DURING WINTER CONSTRUCTION
- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.

WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT THE AMOUNT OF AREA OPEN AT ONE TIME IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND IN CONFORMANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN SUCH THAT ADEQUATE PROVISIONS ARE EMPLOYED TO CONTROL STORMWATER RUNOFF.

CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.

AN AREA SHALL BE CONSIDERED TO HAVE BEEN TEMPORARILY STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET WITH OR WITHOUT SEEDING OR DORMANT SEEDING, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.

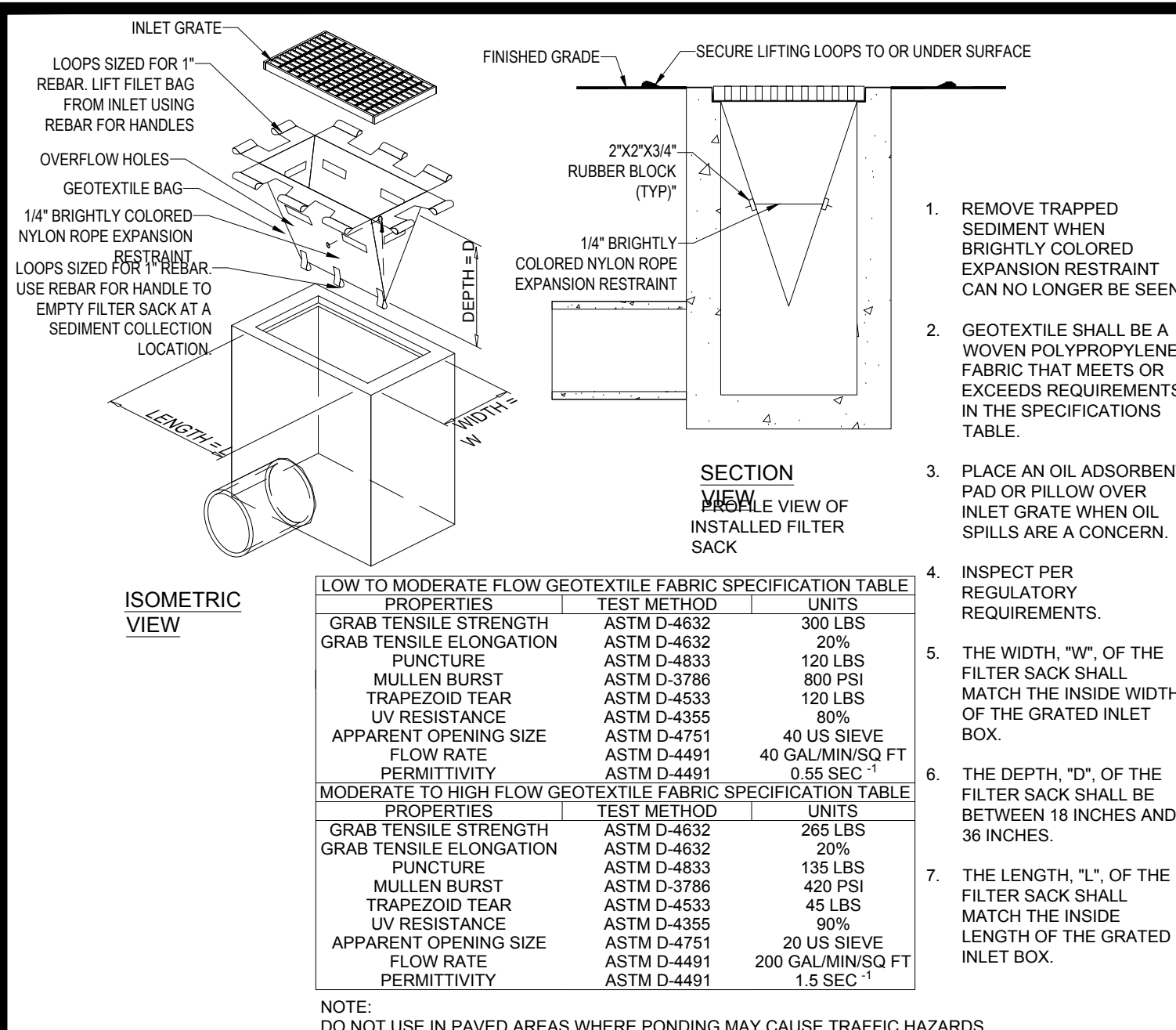
FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, LOAM OR SEED WILL NOT BE REQUIRED. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED. IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDING AT A RATE OF 200-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED AS APPLICABLE. SLOPES SHALL NOT BE LEFT UNSTABILIZED OVER THE WINTER OR IN AREAS WHERE WORK HAS CEASED FOR MORE THAN 14 DAYS UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF SEDIMENT BARRIERS OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.

- MULCHING REQUIREMENTS:
 - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.

- ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN.
- DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- EROSION CONTROL MEASURES MUST CONFORM TO THE STATE, LOCAL, AND FEDERAL GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL, UNLESS OTHERWISE NOTED, OR UNLESS ENGINEER CLEARLY AND SPECIFICALLY, IN WRITING, DIRECTS OTHERWISE. INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE WORK MUST BE PERFORMED EXACTLY AS INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES.
- THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 0.28 ACRES.
- THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS TO BE INSTALLED AT THE DESIGNATED LOCATION SHOWN ON THE PLAN. THIS AREA MUST BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE.
 - SEDIMENT FENCE - INSTALL SILT FENCE(S) AND/OR SILT SOCK AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE, TEMPORARY FILL AND SOIL STOCKPILES.
 - INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE QUANTITY OF SEDIMENT. INSTALL TEMPORARY INLET PROTECTION ON INLETS DOWNSLOPE FROM DISTURBANCE, WHICH MAY BE BEYOND THE LIMITS OF DISTURBED AREA.
- INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR MUST INSPECT EROSION CONTROL MEASURES WEEKLY. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6" OR HALF THE HEIGHT OF THE EROSION CONTROL BARRIER'S HEIGHT COLLECTED ON THE FILTER FABRIC AND/OR SILT SOCK BARRIERS AND EXCAVATE AND REMOVE ANY SILT FROM DROP INLET PROTECTION.
- THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINISHED GRADE AND VEGETATED WITHIN 7 DAYS. WHEN AREAS ARE DISTURBED AFTER THE GROWING SEASON, THE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN SAME IN STRICT ACCORDANCE WITH BEST MANUFACTURING PRACTICES.
- THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF ENGINEER SO REQUIRES, TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.
- THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT PAVING AND TURFLANDSCAPING IS ESTABLISHED. THE COSTS OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR THE SITE WORK AND THE CONTRACTOR IS RESPONSIBLE FOR ALL SUCH COSTS.
- THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION.
- THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS AFTER ESTABLISHING PERMANENT VEGETATION COVER OR OTHER INSTALLING A DIFFERENT, SPECIFIED METHOD OF STABILIZATION.
- THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES, MEASURES AND STRUCTURES. ADDITIONAL FACILITIES, MEASURES AND STRUCTURES MUST BE INSTALLED WHERE NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND/OR TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.
- THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST REFER TO THE LANDSCAPE (AND/OR DEMOLITION PLAN(S)) FOR TREE PROTECTION, FENCE LOCATIONS AND DETAILS.
- THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR MUST CLEAN EXISTING AND PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPES ON OR OFF-SITE AS THE JURISDICTIONAL AGENCY REQUIRES, BOTH AT THE TIME OF SITE STABILIZATION AND AT END OF PROJECT.
- SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE CONTRACTOR AS IDENTIFIED DURING SITE OBSERVATION IN ORDER TO MAINTAIN THE COMPLETE EFFECTIVENESS OF ALL CONTROL MEASURES.
- THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED.



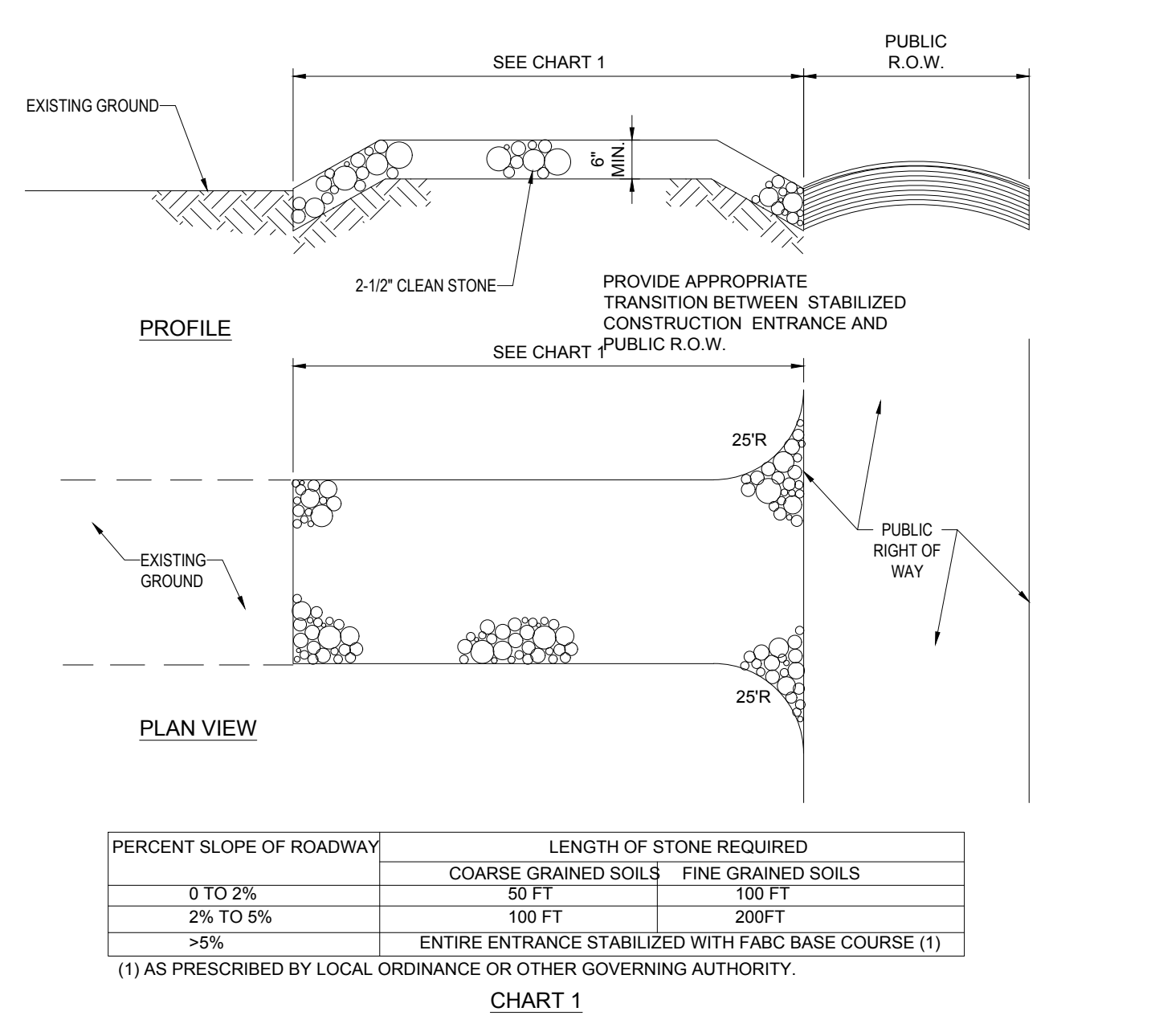
FILTER SACS (GRADED INLETS)

N.T.S.

- THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
 - INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)
 - INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN)
 - DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
 - DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)
 - CLEARING AND GRUBBING
 - EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
 - CONSTRUCTION OF UTILITIES
 - STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
 - INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
 - CONSTRUCTION OF BUILDINGS
 - CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
 - SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
 - FINAL GRADING OF ALL SLOPED AREAS
 - PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED.
 - PAVE PARKING LOT
 - LANDSCAPING PER LANDSCAPING PLAN
 - REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER

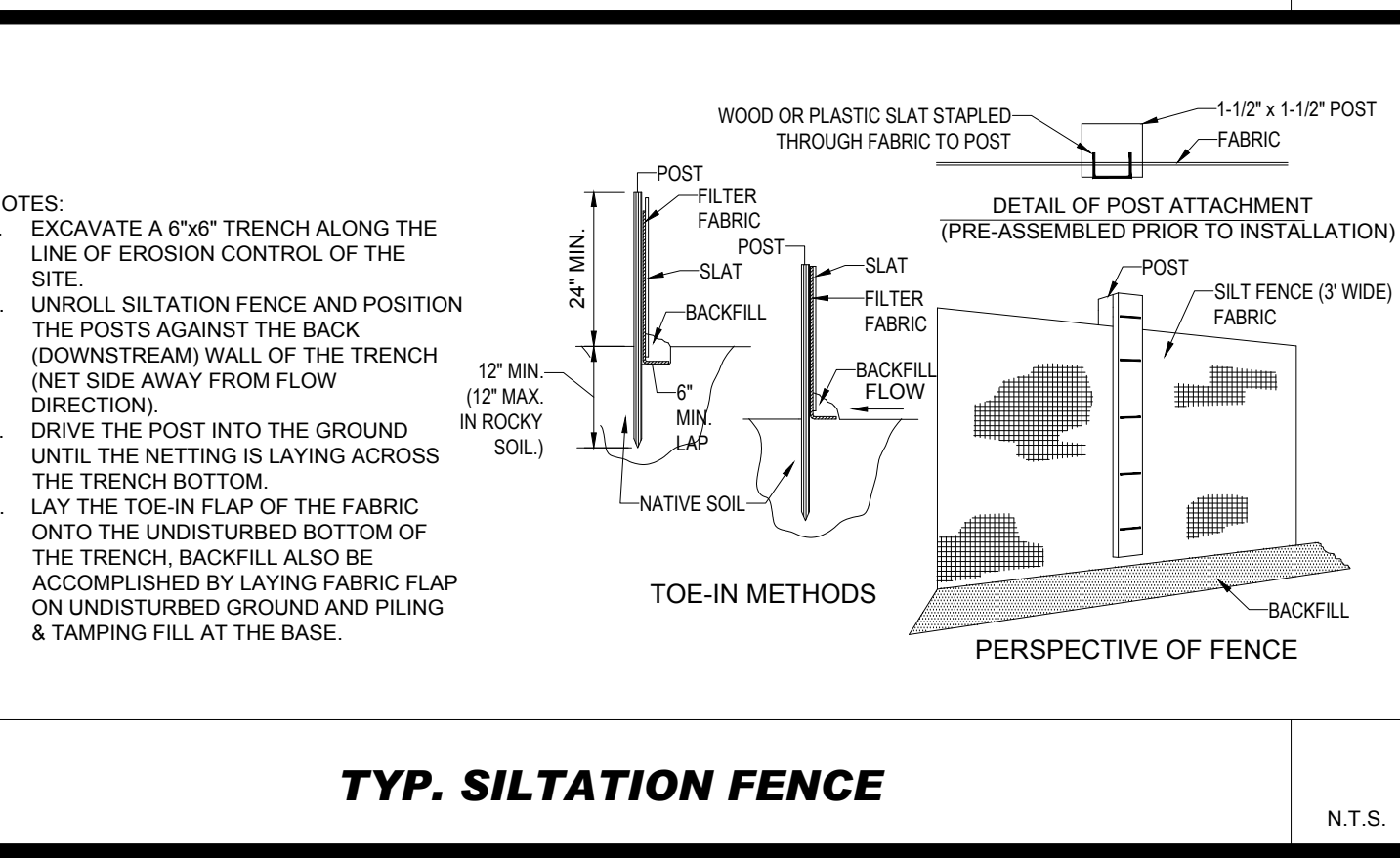
RECOMMENDED CONSTRUCTION SEQUENCE

N.T.S.



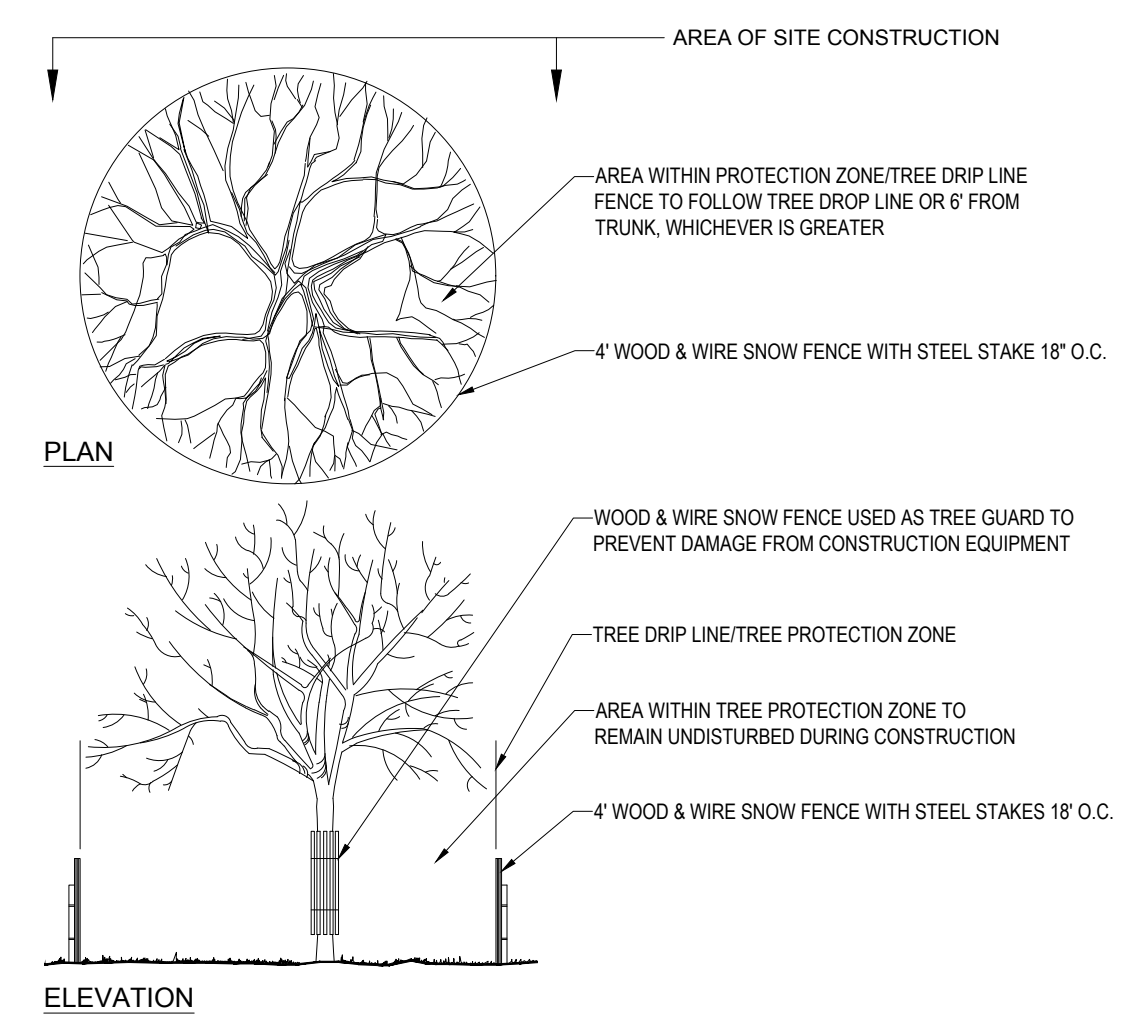
STABILIZED CONSTRUCTION ENTRANCE

N.T.S.



TYP. SILTATION FENCE

N.T.S.



TREE PROTECTION DURING SITE CONSTRUCTION

N.T.S.



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OFFICE ADDRESS
DATE
SIGNATURE
APPROVED: McDONALD'S AGENT

PLAN APPROVALS
DATE
SIGNATURE

STATUS DATE BY
DRAWN BY: 04/28/2023 CSE
PLAN CHECKED - -
AS-BUILT
SHEET NO. **C-602**
OF 15

BOHLER

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

| | |
|---------------------------------|------|
| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: W222000 | |
| CAD I.D. #: W222000-SPDD-5a.dwg | |

| | |
|--|--|
| STREET ADDRESS 413 MAIN STREET | |
| CITY READING | STATE MA |
| COUNTY MIDDLESEX | |
| SITE I.D. 20-0015 | PLAN DESCRIPTION SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS |



**TOWN OF READING, MASSACHUSETTS
LANDSCAPE REQUIREMENTS**

| SECTION | REQUIREMENTS | CALCULATIONS/PROPOSED |
|--------------------------------|--|---|
| 6.5: LANDSCAPE STANDARDS | SIDE YARDS REQUIRED BY THE INTENSITY REGULATIONS SET FORTH IN SECTION 6.0 OF THE ZONING BYLAW SHALL BE LANDSCAPED. SUCH SIDE YARDS SHALL BE PLANTED WITH A COMBINATION OF GRASS, SHRUBS OF APPROPRIATE HEIGHT AND SHADE TREES. IF THERE IS NOT AN ADEQUATE AMOUNT OF SIDE YARD AREA TO LANDSCAPE, A FENCE MAY BE ALLOWED AS AN ALTERNATIVE; PROVIDED, HOWEVER, THAT CHAIN LINK FENCING SHALL NOT BE PERMITTED. NO PARKING AREA OR DRIVEWAY SHALL BE ALLOWED WITHIN SUCH SIDE YARD. | EXISTING FENCE ALONG SIDE YARDS TO REMAIN |
| | NO MORE THAN 50 PERCENT (50%) OF THE TREES, APPROVED TO BE PLANTED, SHALL BE OF ANY ONE SPECIES AND NO LESS THAN 25 PERCENT (25%) OF THE TOTAL TREES PLANTED SHALL BE OF ANY ONE SPECIES. TREES SHALL BE CHOSEN FROM A LIST PROVIDED BY THE TREE WARDEN UNLESS AN ALTERNATIVE IS SPECIFICALLY APPROVED BY THE CPDC. | PROVIDED |
| | TREES ALONG A PUBLIC WAY SHALL BE SPACED AT INTERVALS OF FIFTY (50) FEET; PROVIDED, HOWEVER, THAT NO TREES SHALL BE PLANTED WITHIN FIFTY (50) FEET OF AN INTERSECTION OR FUTURE INTERSECTION. TREES ON ONE (1) SIDE OF A STREET MAY BE SET EITHER OPPOSITE OR DIAGONALLY TO TREES ON THE OPPOSITE SIDE. TREES SHALL BE PLANTED TWO AND A HALF (2 1/2) FEET BEHIND THE SIDEWALK OR SIX (6) FEET BEHIND THE GUTTER LINE AND ALWAYS WITHIN THE RIGHT-OF-WAY. THE LOCATION OF ALL THE PROPOSED TREES MUST BE REVIEWED BY THE TREE WARDEN ON SITE AND APPROVED PRIOR TO INSTALLATION. | WAIVER REQUESTED |
| | THE MINIMUM ACCEPTABLE SIZE OF TREE TO BE PLANTED ALONG A PUBLIC WAY SHALL BE THREE (3) INCH TRUNK CALIPER AT FOUR (4) FEET ABOVE THE GRADE. AT THE TIME OF DELIVERY, THE TREE WARDEN MUST APPROVE THE PROPOSED TREES. EVERGREEN TREES SHALL BE AT LEAST EIGHT (8) FEET TALL AT THE TIME OF PLANTING. | PROVIDED TO EXTENT POSSIBLE |

PLANT SCHEDULE

| CODE | QTY | BOTANICAL NAME | COMMON NAME | SIZE | CONTAINER |
|------------------------|-----|--|------------------------------------|--------------|--------------------|
| CANOPY TREES | | | | | |
| AROG | 1 | ACER RUBRUM 'OCTOBER GLORY' | OCTOBER GLORY RED MAPLE | 3" CAL. MIN. | B&B |
| NW | 1 | NYSSA SYLVATICA 'WILDFIRE' | WILDFIRE TUPELO | 3" CAL. MIN. | B&B |
| QP | 1 | QUERCUS PALUSTRIS | PIN OAK | 3" CAL. MIN. | B&B |
| EVERGREEN TREES | | | | | |
| TOE | 36 | THUJA OCCIDENTALIS 'SMARAGD' | EMERALD GREEN ARBORVITAE | 8' HT. | B&B |
| SHRUBS | | | | | |
| AC2 | 2 | AMELANCHIER CANADENSIS | CANADIAN SERVICEBERRY | 8-10' HT. | B&B |
| AL2 | 31 | ARONIA MELANOCARPA 'UCONN169' | LOW SCAPE MOUND® BLACK CHOKEBERRY | 18-24" HT. | CONTAINER |
| AM | 11 | ARONIA MELANOCARPA 'MORTON' | IRROQUOIS BEAUTY™ BLACK CHOKEBERRY | 24-30" HT. | CONTAINER |
| CK2 | 9 | CORNUS SERICEA 'KELSEY' | KELSEY'S DWARF RED TWIG DOGWOOD | 18-24" HT. | CONTAINER |
| CR | 12 | CLETHRA ALNIFOLIA 'RUBY SPICE' | RUBY SPICE SUMMERSWEET | 24-30" HT. | CONTAINER |
| CSF | 18 | CORNUS STOLONIFERA 'FARROW' | ARCTIC FIRE RED TWIG DOGWOOD | 2-3' HT. | CONTAINER |
| IGC | 43 | ILEX GLABRA 'COMPACTA' | COMPACT INKBERRY | 24-30" HT. | CONTAINER |
| KLE | 5 | KALMIA LATIFOLIA 'ELF' | DWARF MOUNTAIN LAUREL | 24-30" HT. | CONTAINER |
| VH | 2 | VACCINIUM CORYMBOSUM | HIGHBUSH BLUEBERRY | 30-38" HT. | B&B |
| GRASSES | | | | | |
| PVS | 21 | PANICUM VIRGATUM 'SHENANDOAH' | SHENANDOAH SWITCH GRASS | 1 GAL. | CONTAINER |
| GROUND COVERS | | | | | |
| VI | 58 | VACCINIUM ANGUSTIFOLIUM 'RUBY CARPET' | RUBY CARPET LOWBUSH BLUEBERRY | 1 GAL. | CONTAINER 24" o.c. |
| PERENNIALS | | | | | |
| CH | 51 | COREOPSIS ROSEA 'HEAVENS GATE' | PINK COREOPSIS | 1 GAL. | CONTAINER 18" o.c. |
| RFG | 119 | RUBEBECKIA FULGIDA SULLIVANTII 'GOLDSTURM' | GOLDSTURM CONEFLOWER | 1 GAL. | CONTAINER 18" o.c. |

SEED MIX KEY

PROPOSED HYDROSEED

OWNER MAINTENANCE RESPONSIBILITIES

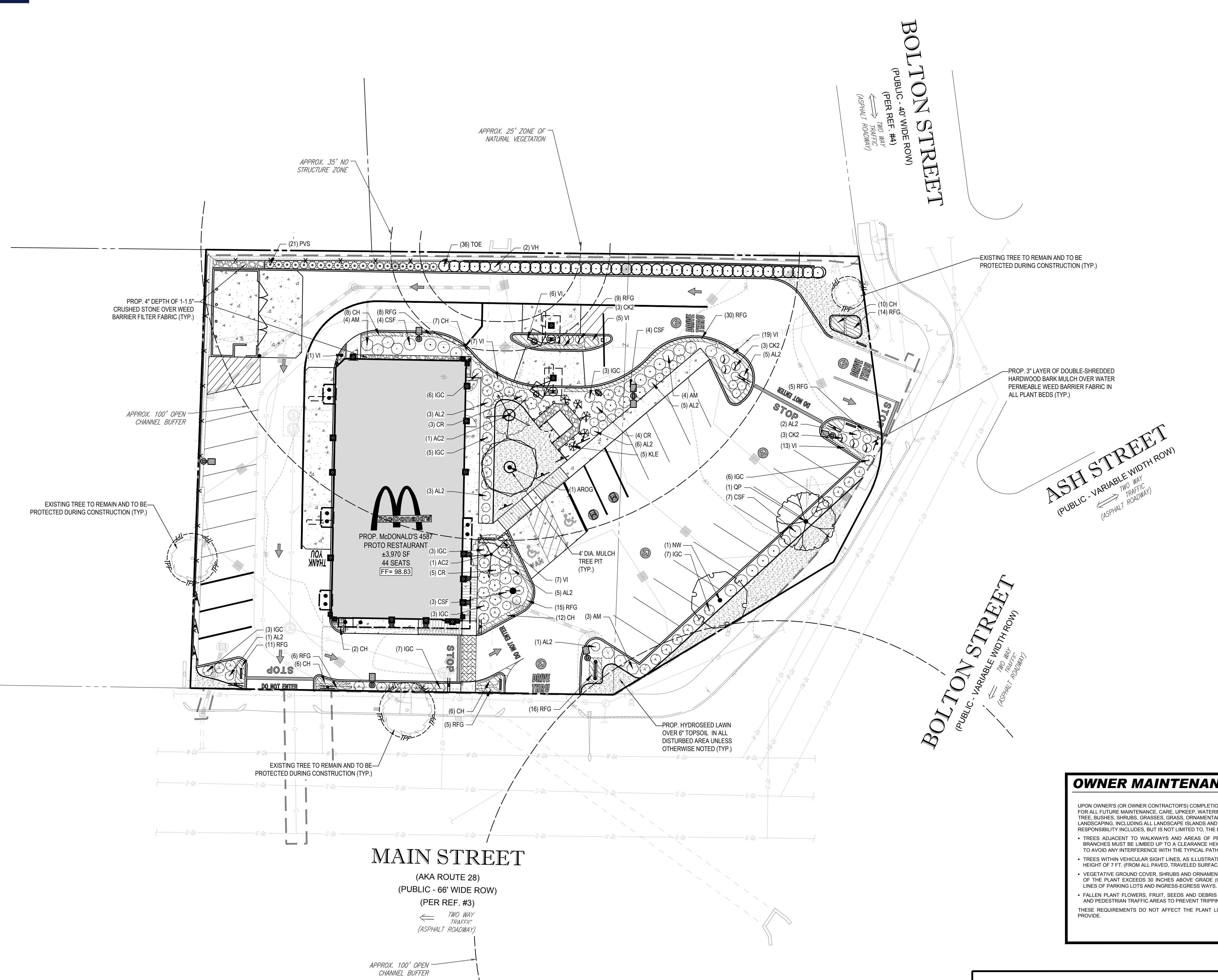
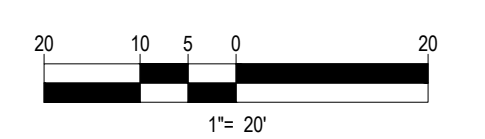
UPON OWNER'S (OR OWNER CONTRACTOR'S) COMPLETION OF LANDSCAPING WORK, THE OWNER IS FULLY RESPONSIBLE FOR ALL FUTURE MAINTENANCE, CARE, UPKEEP, WATERING, AND TRIMMING OF ALL INSTALLED VEGETATION, PLANTS, TREE, SHRUBS, SHRUBS, GRASSES, GRASS, ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, FLOWERS, GROUND COVER, AND LANDSCAPING, INCLUDING ALL LANDSCAPE ISLANDS AND AREAS ADJACENT OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- TREES ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY BRANCHES MUST BE LIMBED UP TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PEDESTRIAN SURFACES) OR PRUNED BACK TO AVOID ANY INTERFERENCE WITH THE TYPICAL PATH OF TRAVEL.
- TREES WITHIN VEHICULAR SIGHT LINES, AS ILLUSTRATED ON THE LANDSCAPE PLAN, ARE TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND GRASSES MUST BE TRIMMED SO THAT NO PORTION OF THE PLANT EXCEEDS 30 INCHES ABOVE GRADE (OF ALL PAVED, TRAVEL SURFACES) ALONG AND WITHIN THE SIGHT LINES OF PARKING LOTS AND INGRESS-EGRESS WAYS.
- FALLEN PLANT FLOWERS, FRUIT, SEEDS AND DEBRIS DROPPINGS ARE TO BE REMOVED IMMEDIATELY FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARDS.

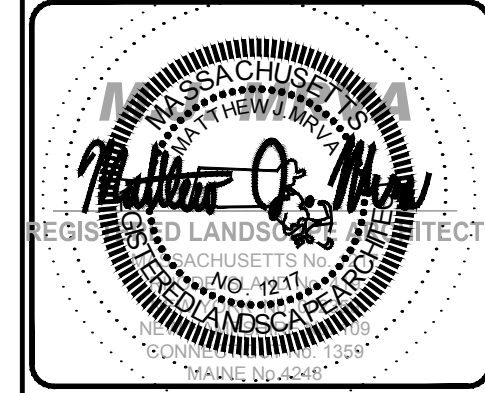
THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEE THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE.

**THIS PLAN TO BE UTILIZED FOR
LANDSCAPE PURPOSES ONLY**

**REFER LANDSCAPE NOTES &
DETAILS SHEET FOR LANDSCAPE
NOTES AND DETAILS**



| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------------|
| 1 | 06/12/2023 | REV. PER ZBA & ABUTTERS FEEDBACK |
| 2 | 08/09/2023 | REV. FOR CPDC SUBMITTAL |
| 3 | 10/02/2023 | REV. FOR CPDC SUBMITTAL |
| 4 | 10/18/2023 | REV. FOR CPDC COMMENTS |
| 5 | 12/15/2023 | REV. FOR TOWN COMMENTS |



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| PLAN APPROVALS | SIGNATURE | DATE |
|----------------|-----------|------|
| | | |

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

| | |
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| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: | W222000 |
| CAD I.D. #: | W222000-SPPD-5a.dwg |

STREET ADDRESS
413 MAIN STREET

CITY
READING

STATE
MA

COUNTY
MIDDLESEX

SITE I.D.
20-0015

PLAN DESCRIPTION
LANDSCAPE PLAN

| STATUS | DATE | BY |
|--------------|--------------|-----|
| DRAWN BY: | 04/28/2023 | CSE |
| PLAN CHECKED | - | - |
| AS-BUILT | - | - |
| SHEET NO. | C-701 | |
| | OF 15 | |

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LANDSCAPE SPECIFICATIONS

1. **SCOPE OF WORK:**
 1.1. THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.

2. **MATERIALS**
 2.1. GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.
 2.2. TOPSOIL - NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
 2.3. LAWN - ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM 6" THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED ON THE LANDSCAPE PLAN.

2.3.1. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.
 2.3.2. SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE-FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOD IN PLACE.
 2.4. MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN AND/OR LANDSCAPE PLAN NOTES/DETAILS.
 2.5. FERTILIZER
 2.5.1. FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
 2.5.2. FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.
 2.6. PLANT MATERIAL
 2.6.1. ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1, LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN)).
 2.6.2. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
 2.6.3. PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
 2.6.4. TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1/2", WHICH HAVE NOT BEEN COMPLETELY CALLEDUS, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
 2.6.5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
 2.6.6. CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.
 2.6.7. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
 2.6.8. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.

3. **GENERAL WORK PROCEDURES**
 3.1. CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORK DAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
 3.2. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
 4. **SITE PREPARATIONS**
 4.1. BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN.
 4.2. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
 4.3. CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.
 5. **TREE PROTECTION**
 5.1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
 5.2. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY "VISI-FENCE", OR APPROVED EQUAL, MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.
 5.3. WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
 5.4. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.

6. **SOIL MODIFICATIONS**
 6.1. CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
 6.2. LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
 6.3. THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
 6.3.1. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
 6.3.2. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF INCHES IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
 6.3.3. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
 7. **FINISHED GRADING**
 7.1. UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
 7.2. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1").
 7.3. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
 7.4. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
 8. **TOPSOILING**
 8.1. CONTRACTOR SHALL PROVIDE A 6" THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
 8.2. ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
 8.3. CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
 8.4. ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE FILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY) [SEE SPECIFICATION 6.A.1]:
 8.4.1. 20 POUNDS 'GRO-POWER' OR APPROVED SOIL CONDITIONER/FERTILIZER
 8.4.2. 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP OR APPROVED NITROGEN FERTILIZER
 8.5. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.
 9. **PLANTING**
 9.1. INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
 9.2. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.

9.3. ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
 9.4. ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
 9.5. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
 9.6. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS:
 9.6.1. PLANTS: MARCH 15 TO DECEMBER 15
 9.6.2. LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1
 9.6.3. PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.
 9.7. FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON:
 ACER RUBRUM PLATANUS X ACERIFOLIA
 BETULA VARIETIES POPULUS VARIETIES
 CARPINUS VARIETIES PRUNUS VARIETIES
 CRATAEGUS VARIETIES PYRUS VARIETIES
 KOELREUTERIA QUERCUS VARIETIES
 LIQUIDAMBAR STRACIFILIA TILIA TOMENTOSA
 LIRIODENDRON TULIPEFERA ZELKOVA VARIETIES

9.8. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
 9.8.1. 1 PART PEAT MOSS
 9.8.2. 1 PART COMPOSTED COW MANURE BY VOLUME
 9.8.3. 3 PARTS TOPSOIL BY VOLUME
 9.8.4. 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:
 9.8.4.1. 2 TABLETS PER 1 GALLON PLANT
 9.8.4.2. 3 TABLETS PER 5 GALLON PLANT
 9.8.4.3. 4 TABLETS PER 15 GALLON PLANT
 9.8.4.4. LARGER PLANTS: 2 TABLETS PER 1/2" CALIPER OF TRUNK
 9.9. FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.
 9.10. ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL IS THE POINT AT WHICH THE ROOT FLARE BEGINS. IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL.
 9.11. ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE.
 9.12. GROUND COVER AREAS SHALL RECEIVE A 1/2" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION.
 9.13. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS.
 9.14. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB.
 9.15. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.
 10. **TRANSPLANTING (WHEN REQUIRED)**
 10.1. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.
 10.2. IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.
 10.3. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
 10.4. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
 10.5. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
 10.6. IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.

11. **WATERING**
 11.1. NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.
 11.2. SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.
 11.3. IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.
 12. **GUARANTEE**
 12.1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF 1 YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
 12.2. ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.
 12.3. TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.
 12.4. LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
 13. **CLEANUP**
 13.1. UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
 13.2. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
 14. **MAINTENANCE (ALTERNATIVE BID)**
 14.1. A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD ENSURES TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPING HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED, THE OWNER/OPERATOR MAY REQUEST THAT BIDDERS SUBMIT AN ALTERNATE MAINTENANCE BID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL ENCOMPASS ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MANICURED TO THE APPROVAL OF THE OWNER/OPERATOR.

15. **CRUSHED STONE DRIP EDGE**
 SPECIFICATIONS
 NAME: 1" - 1 1/2" CRUSHED BLUESTONE GRAVEL
 COLOR: COLORS WILL BE GREYS WITH BLUSH TONES
 SIZE: STONE SIZES WILL RANGE FROM 1" - 1 1/2" IN AT LEAST ONE DIMENSION. STONE SIZING SHOULD BE UNIFORM WITH LITTLE VARIATION FROM THIS RANGE.
 SILT CONTENT: SILT NEEDS TO BE CLEAN OF DEBRIS AND STONE AT TIME OF DELIVERY.
 FINISHED GRADE, MATERIAL VARIES; SEE PLANS
 1/8" x 4" STEEL EDGE WITH STAKES EVERY 2'
 CRUSHED STONE
 FINISHED GRADE, SEE PLANS FOR ELEVATION
 WEED BARRIER FABRIC
 UNDISTURBED OR COMPACTED SUBGRADE

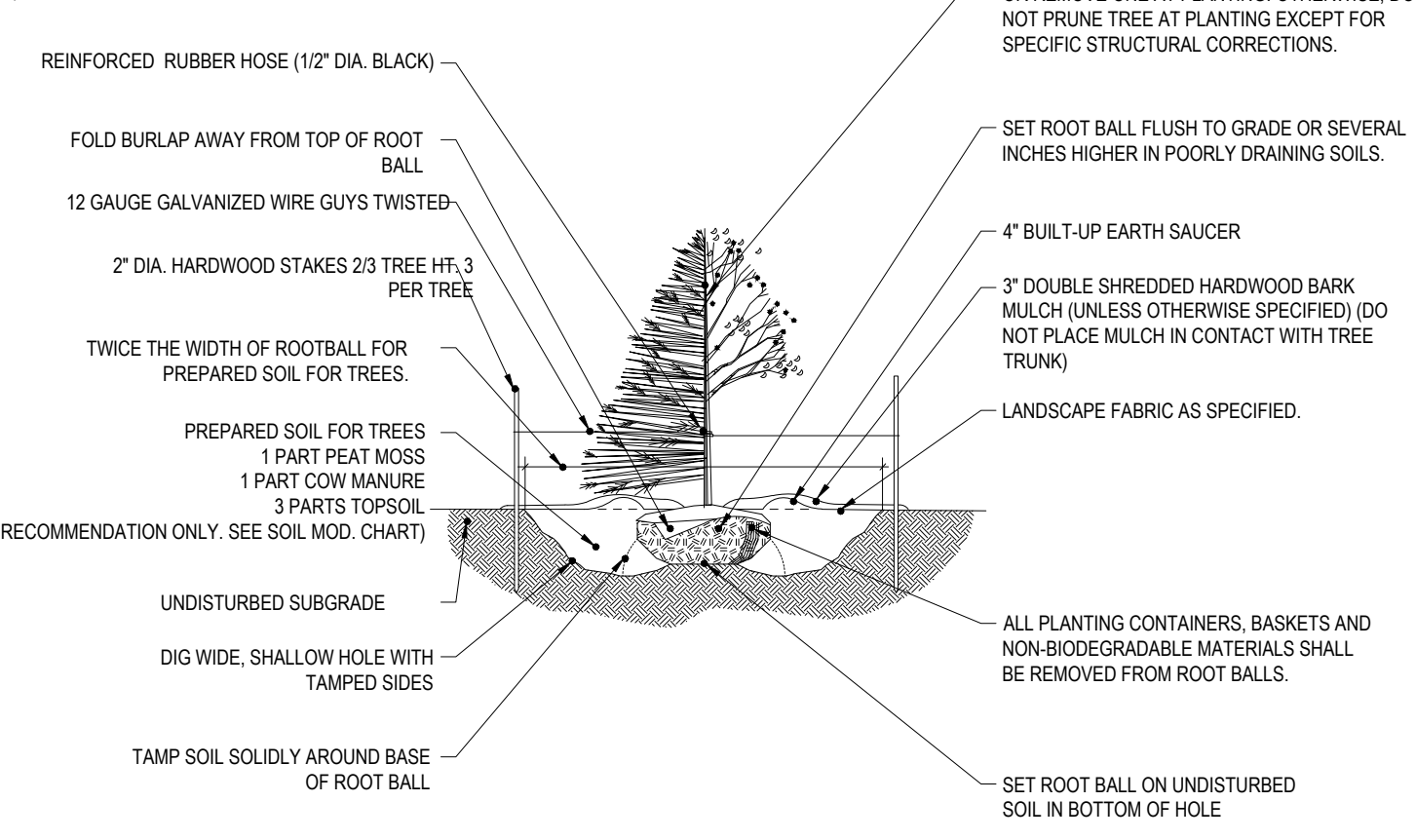
16. **SHRUB PLANTING DETAIL**
 N.T.S.
 PLANT SHALL BE PLANTED SO THAT THE POINT AT WHICH THE ROOT FLARE BEGINS IS SET LEVEL WITH GRADE. CUT AND REMOVE BURLAP FROM TOP ONE-THIRD OF ROOT BALL AS SHOWN.
 PLANTING MIX:
 1 PART PEAT MOSS
 1 PART COW MANURE
 3 PARTS TOPSOIL
 (SEE SOIL MODIFICATION CHART)
 BEFORE PLANTING, ADD 3" TO 4" OF WELL-COMPOSTED LEAVES AND RECYCLED YARD WASTE TO BED AND TILL INTO TOP 6" OF PREPARED SOIL.
 SOIL SURFACE ROUGHENED TO BIND WITH NEW SOIL.
 FOR CONTAINER-GROWN SHRUBS, PLANT SHALL BE TRANSPLANTED AT THE SAME GRADE AS IN THE CONTAINER. REMOVE THE CONTAINER, USE FINGER OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL, THEN CUT OR PULL APART ANY ROOTS THAT CIRCLE THE PERIMETER OF THE CONTAINER.
 3" DOUBLE-SHREDDED HARDWOOD BARK MULCH (DO NOT PUT MULCH AGAINST THE BASE OF THE PLANT).
 LANDSCAPE FABRIC AS SPECIFIED.
 FINISHED GRADE
 PLACE SHRUB ON FIRM SOIL IN BOTTOM OF HOLE.
 UNDISTURBED SUBGRADE
 WHEN APPROPRIATE, PLANT MULTIPLE SHRUBS IN CONTINUOUS PLANTING HOLE.

17. **GROUND COVER PLANTING**
 N.T.S.
 INCORPORATE 2" OF PEAT INTO 6" OF PLANTING MIXTURE, AS SPECIFIED.
 1" DOUBLE SHREDDED HARDWOOD BARK MULCH
 EDGING (AS SPECIFIED)
 FINISHED GRADE
 TOPSOIL

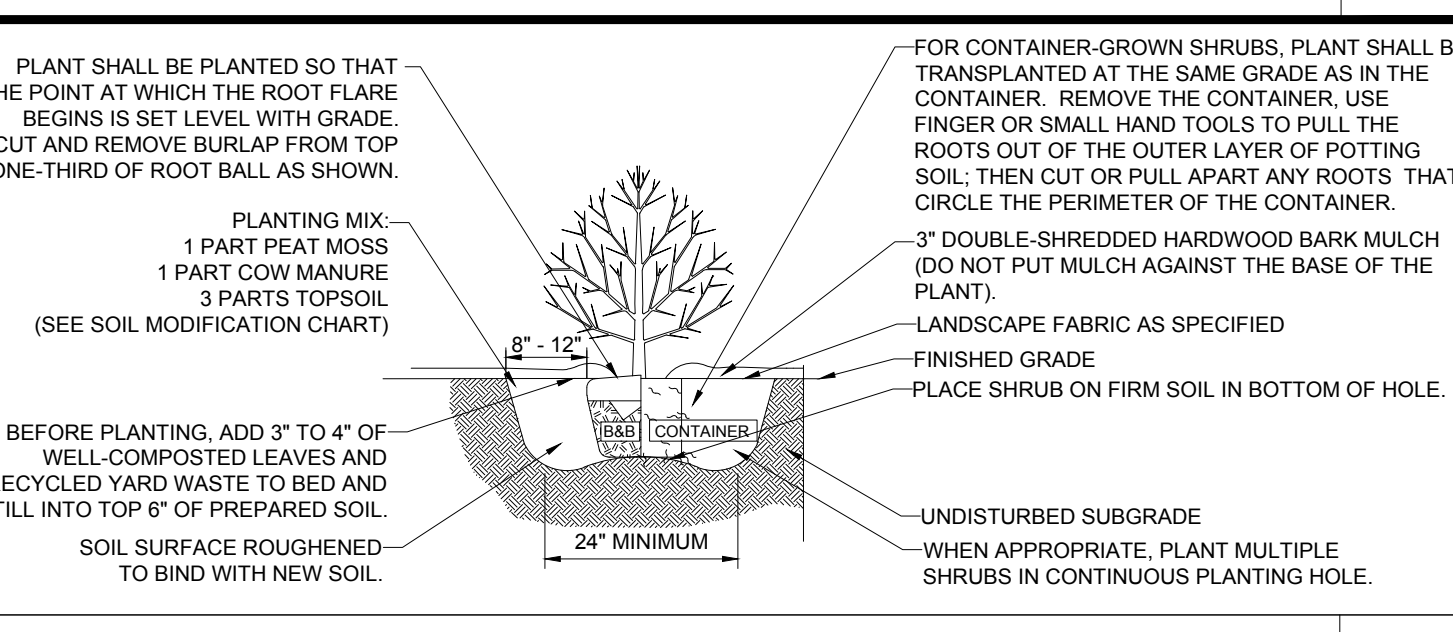
18. **HYDROSEED SPECIFICATIONS**
 1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2" DIAMETER.
 2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
 3. SEEDING RATES:
 PERENNIAL RYEGRASS 1/2 LB/1000 SQ FT
 KENTUCKY BLUEGRASS 1 LB/1000 SQ FT
 RED FESCUE 1/2 LB/1000 SQ FT
 SPREADING FESCUE 1/2 LB/1000 SQ FT
 FERTILIZER (16.32.16) 2 LB/1000 SQ FT
 LIQUID LIME 1 GAL/800 GAL
 TANK TACKIFIER 35 LB/800 GAL
 TANK FIBER MULCH 30 LB/1000 SQ FT
 4. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

19. **CRUSHED STONE DRIP EDGE**
 N.T.S.
 FINISHED GRADE, MATERIAL VARIES; SEE PLANS
 1/8" x 4" STEEL EDGE WITH STAKES EVERY 2'
 CRUSHED STONE
 FINISHED GRADE, SEE PLANS FOR ELEVATION
 WEED BARRIER FABRIC
 UNDISTURBED OR COMPACTED SUBGRADE

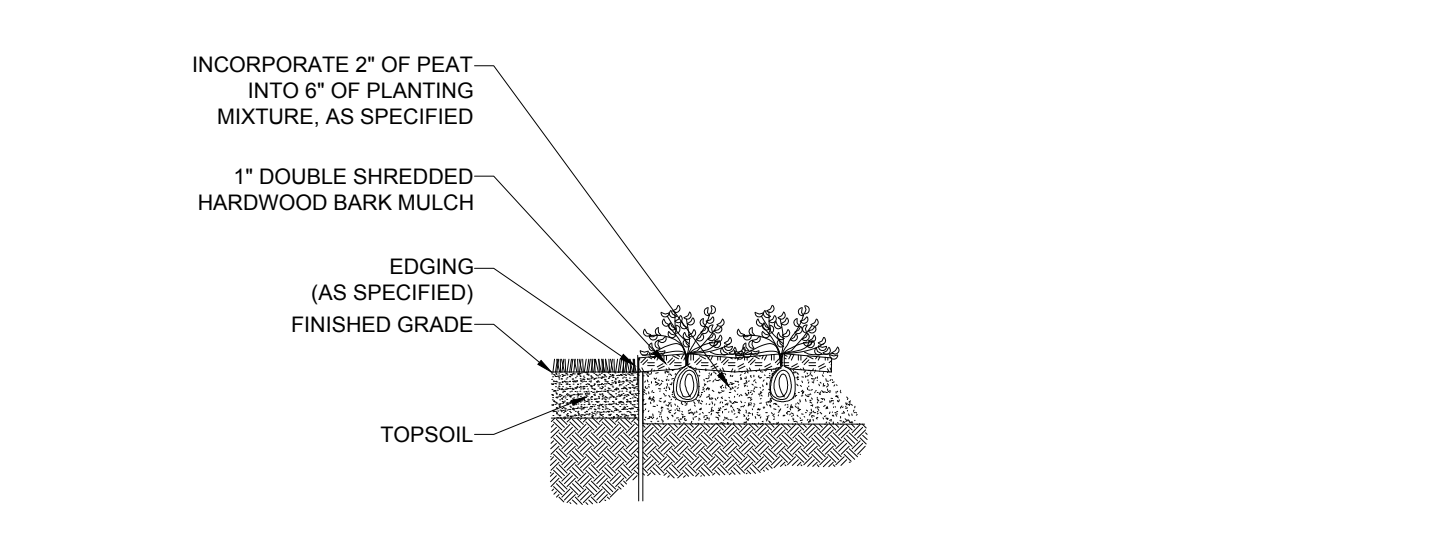
NOTES:
 1.) NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2.) REMOVE ALL NON-BIODEGRADABLE MATERIAL AND ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK 1/3" FROM ROOT BALL.
 3.) PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
 4.) THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
 5.) THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE SUBSOIL.
 6.) REFER TO THE CHART "GENERAL RANGE OF SOIL MODIFICATIONS & VOLUMES FOR VARIOUS SOIL CONDITIONS" TO DETERMINE MINIMUM WIDTH OF PREPARED SOIL.
 7.) SUBSTITUTE ARBORVITAE STAKING SYSTEM WHEN SPECIFIED.
 AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING. OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS.



TREE PLANTING DETAIL N.T.S.



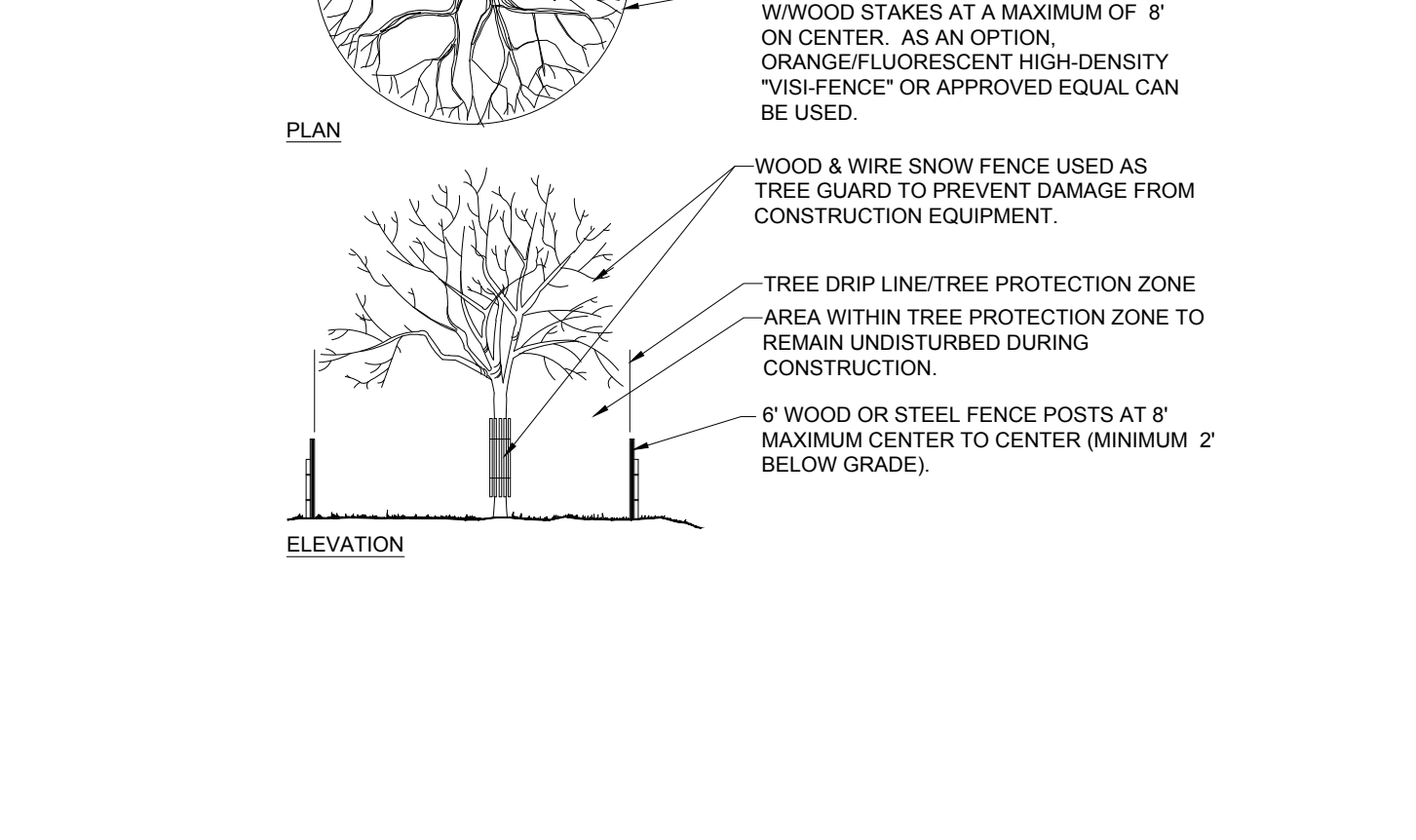
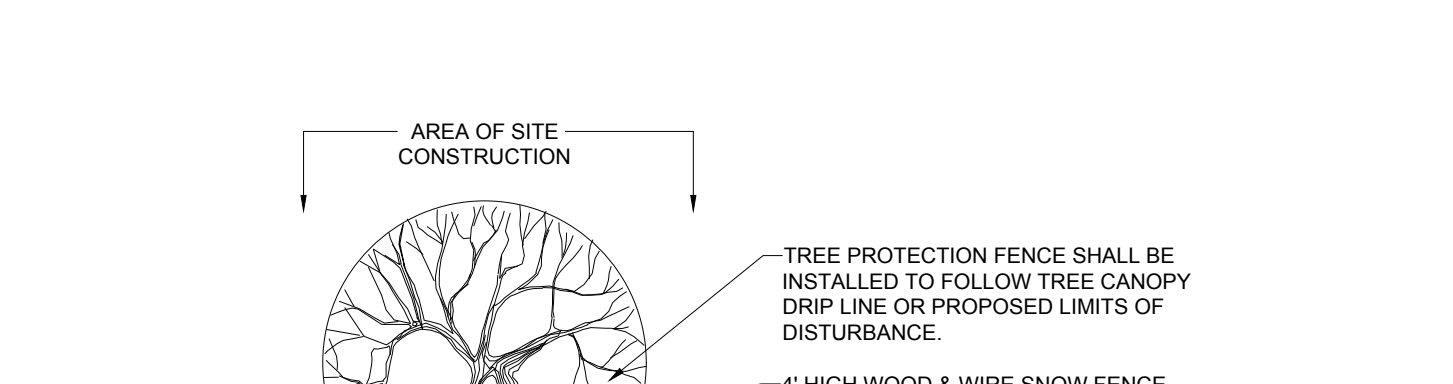
SHRUB PLANTING DETAIL N.T.S.



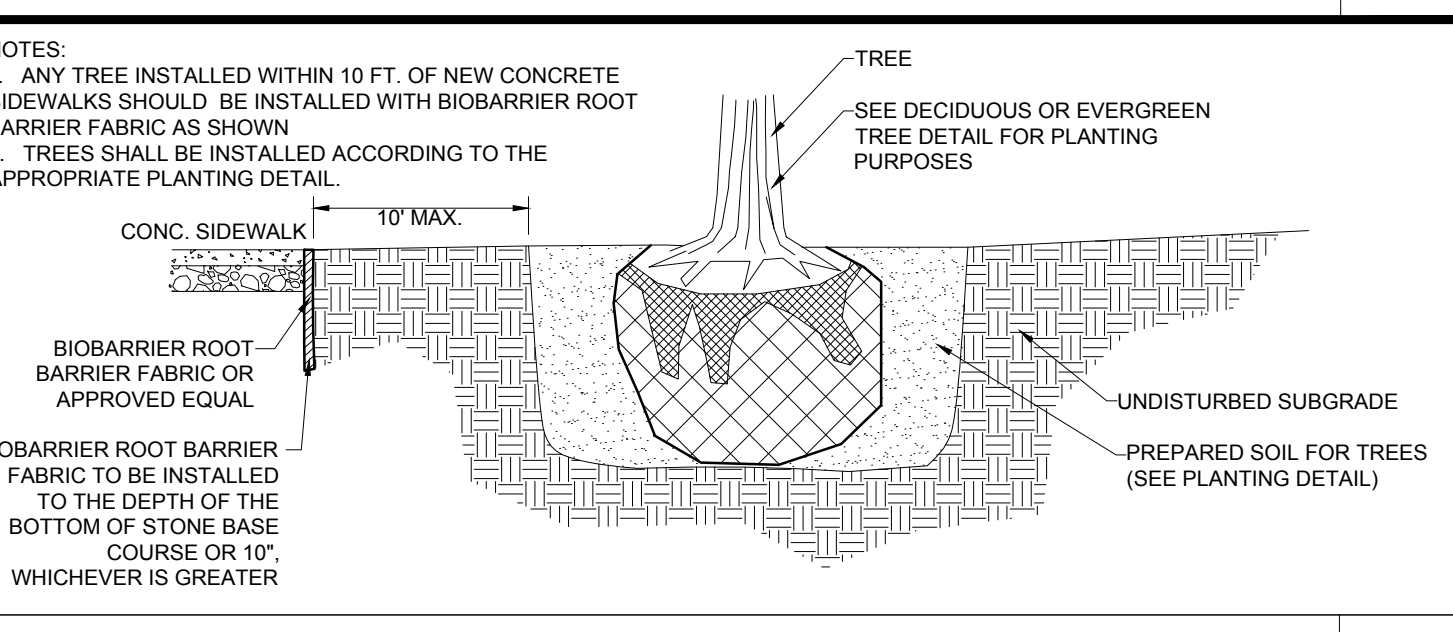
GROUND COVER PLANTING N.T.S.

20. **HYDROSEED SPECIFICATIONS**
 1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2" DIAMETER.
 2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
 3. SEEDING RATES:
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 KENTUCKY BLUEGRASS 1 LB/1000 SQ FT
 RED FESCUE 1/2 LB/1000 SQ FT
 SPREADING FESCUE 1/2 LB/1000 SQ FT
 FERTILIZER (16.32.16) 2 LB/1000 SQ FT
 LIQUID LIME 1 GAL/800 GAL
 TANK TACKIFIER 35 LB/800 GAL
 TANK FIBER MULCH 30 LB/1000 SQ FT
 4. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

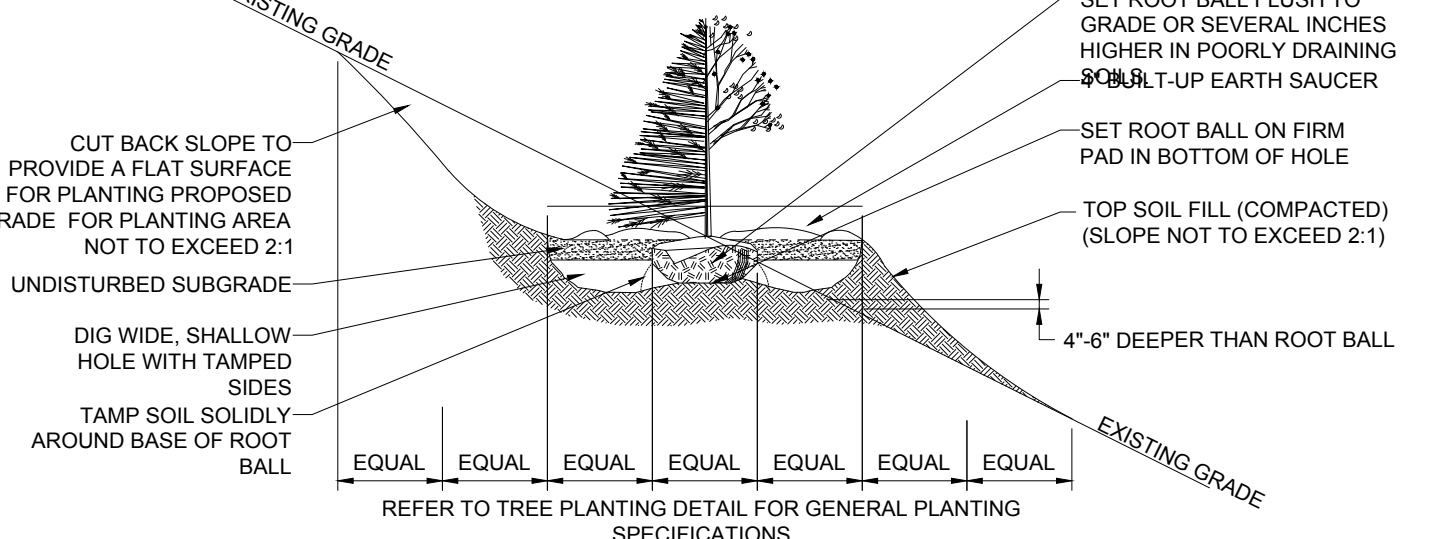
HYDROSEED SPECIFICATIONS N.T.S.



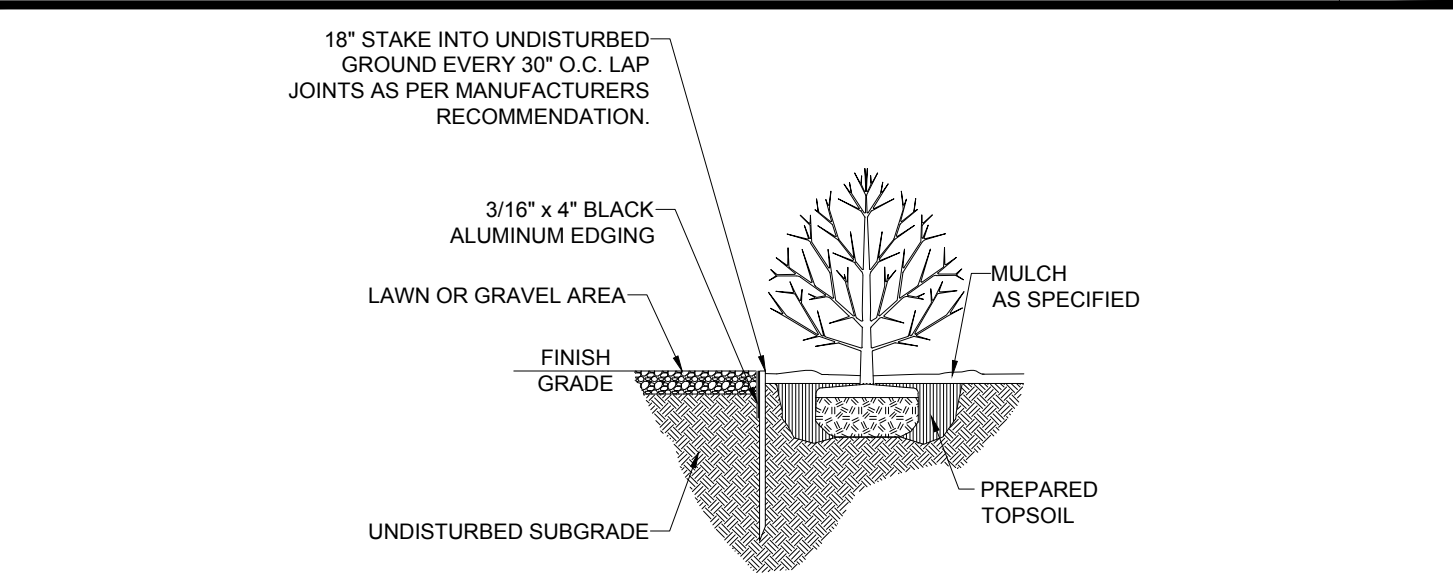
TREE PROTECTION DURING SITE CONSTRUCTION N.T.S.



BIOBARRIER ROOT BARRIER DETAIL N.T.S.

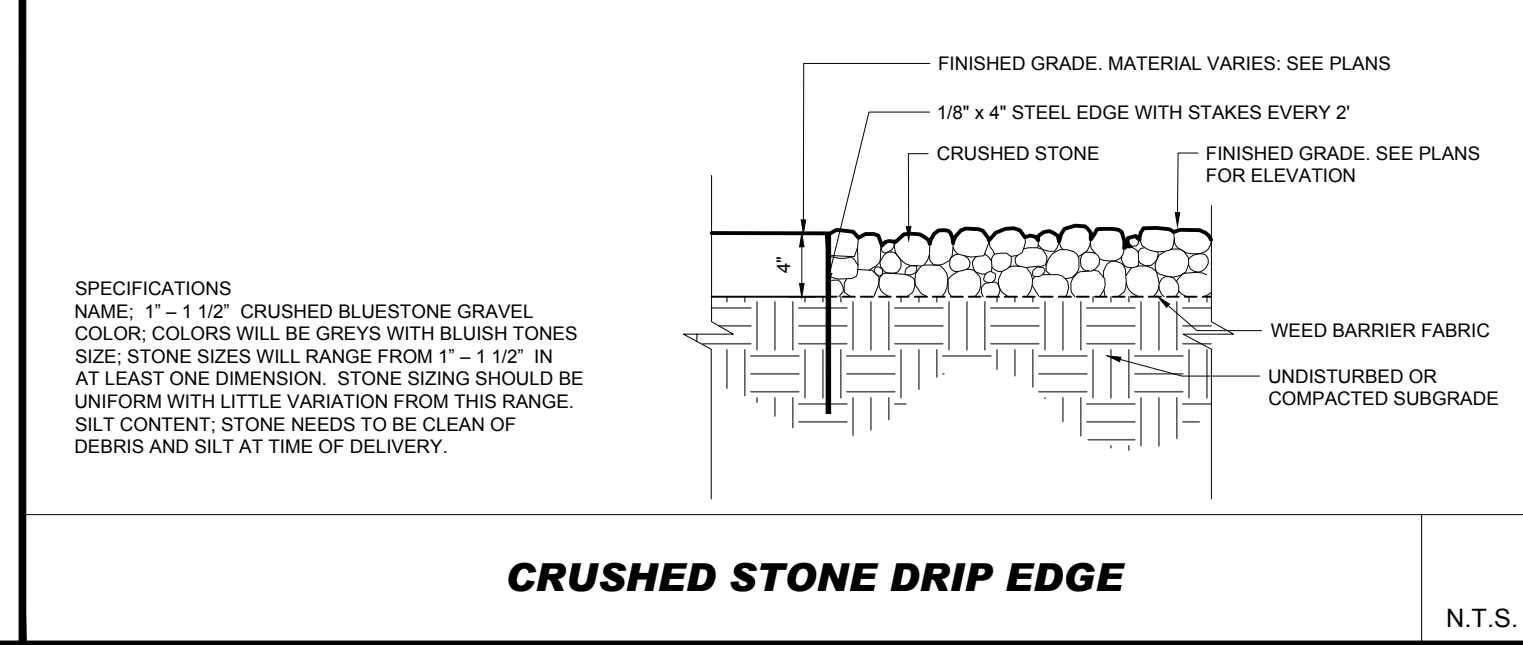


TREE PLANTING DETAIL - ON SLOPE N.T.S.



BLACK ALUMINUM EDGING N.T.S.

21. **CRUSHED STONE DRIP EDGE**
 SPECIFICATIONS
 NAME: 1" - 1 1/2" CRUSHED BLUESTONE GRAVEL
 COLOR: COLORS WILL BE GREYS WITH BLUSH TONES
 SIZE: STONE SIZES WILL RANGE FROM 1" - 1 1/2" IN AT LEAST ONE DIMENSION. STONE SIZING SHOULD BE UNIFORM WITH LITTLE VARIATION FROM THIS RANGE.
 SILT CONTENT: SILT NEEDS TO BE CLEAN OF DEBRIS AND STONE AT TIME OF DELIVERY.
 FINISHED GRADE, MATERIAL VARIES; SEE PLANS
 1/8" x 4" STEEL EDGE WITH STAKES EVERY 2'
 CRUSHED STONE
 FINISHED GRADE, SEE PLANS FOR ELEVATION
 WEED BARRIER FABRIC
 UNDISTURBED OR COMPACTED SUBGRADE



CRUSHED STONE DRIP EDGE N.T.S.

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 PERMITTING SERVICES
 TRANSPORTATION SERVICES

COMPLIANCE CHECK DATE
 CONSTRUCTION CHECK DATE
 CONSTRUCTION CHECK DATE
 PROJECT No.: W222000
 CAD I.D. #: W222000-SPPD-5a.dwg

STREET ADDRESS
413 MAIN STREET

CITY
READING

STATE
MA

COUNTY
MIDDLESEX

SITE I.D.
20-0015

PLAN DESCRIPTION
LANDSCAPE NOTES & DETAILS

| | | | |
|-------------|----------------------------------|------|------------|
| BY | CSE | DATE | 06/12/2023 |
| DESCRIPTION | REV. PER ZBA & ABITTERS FEEDBACK | DATE | 08/09/2023 |
| | REV. FOR CPDC SUBMITTAL | DATE | 10/02/2023 |
| | REV. FOR CPDC COMMENTS | DATE | 10/18/2023 |
| | REV. FOR TOWN COMMENTS | DATE | 12/12/2023 |

REGISTERED LANDSCAPE ARCHITECT
 MICHAEL J. BOHLER
 110 N CARPENTER ST
 CHICAGO, IL 60607

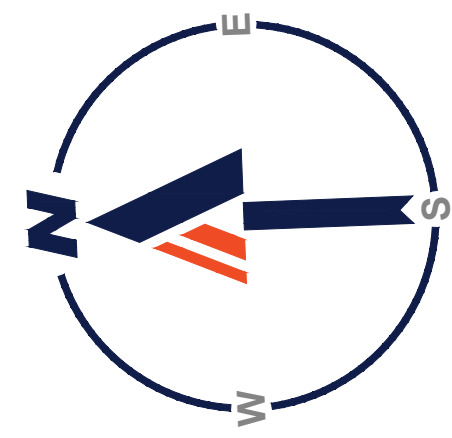
McDonald's

STATUS
 DRAWN BY: 04/28/2023 CSE

PLAN CHECKED
 AS-BUILT

SHEET NO.
C-702
 OF 15

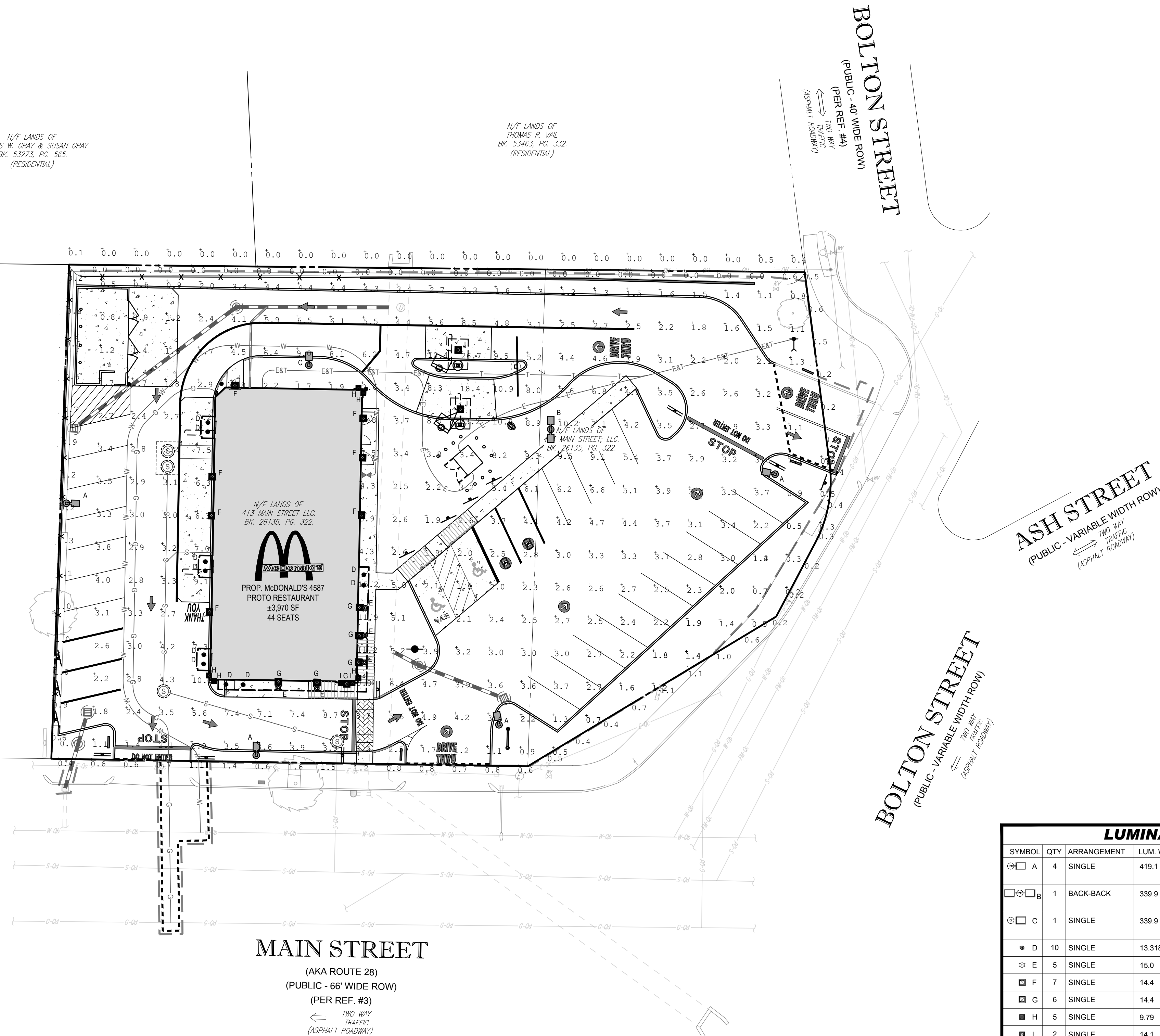
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N/4 LANDS OF CHARLES W. GRAY & SUSAN GRAY BK. 53273, PG. 563. (RESIDENTIAL)

N/4 LANDS OF THOMAS R. VAIL BK. 53463, PG. 332. (RESIDENTIAL)

N/4 LANDS OF GRAY'S MIN & WASHINGTON LLC. BK. 41722, PG. 394. (GAS STATION)



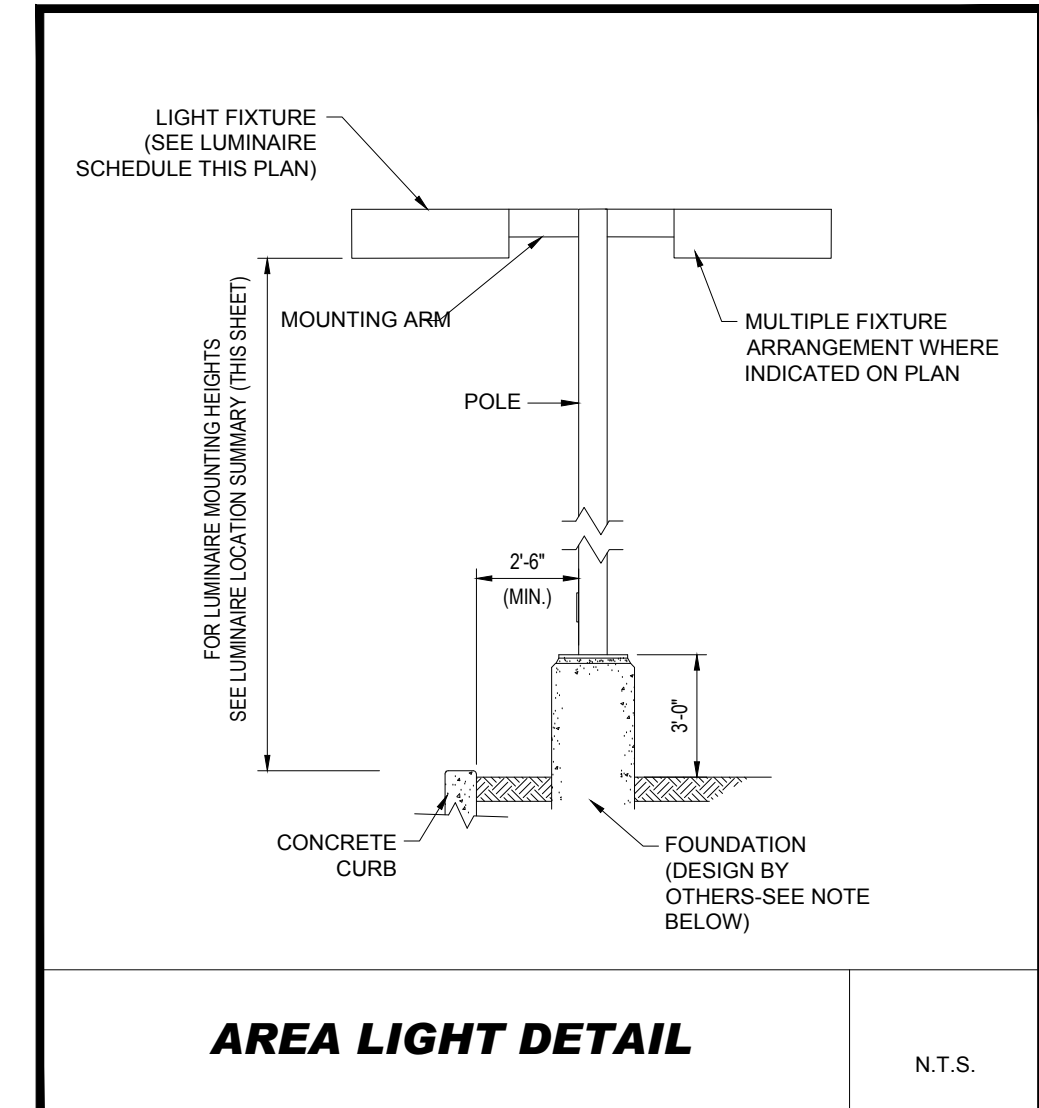
LIGHTING NOTES

- THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LEVELS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.90 FOR ALL LED LUMINAIRES, 0.80 FOR ALL HIGH PRESSURE SODIUM LUMINAIRES OR 0.72 FOR ALL METAL HALIDE LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.
- THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOTCANDLES.
- THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINAIRES, LAMPS AND LENSES TO FAIL PROPERLY TO FUNCTION.
- WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE, CONSEQUENTLY, APPROXIMATIONS ONLY. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC. ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.
- THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. POWER SYSTEM, CONDUITS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. LIGHT POLE BASES ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.
- CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
- IT IS THE LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING THE POWER SOURCE(S) FROM WITHIN THE BUILDING, AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT.
- THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL GOVERNMENTAL RULES, LAWS, ORDINANCES, REGULATIONS AND THE LIKE.
- THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR SEPARATION FROM OVERHEAD ELECTRICAL WIRES PER STATE REGULATIONS.
- WHEN A BANK ATM IS INCLUDED IN THE PLAN, THE LIGHTING DESIGN REPRESENTS BOHLER'S UNDERSTANDING AND INTERPRETATION OF THE REGULATORY LIGHTING LEVELS INTENDED BY PUBLISHED STANDARDS.
- UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.

| REV | DATE | DESCRIPTION |
|-----|------------|---------------------------------|
| 1 | 06/12/2023 | REV PER ZBA & ABITTERS FEEDBACK |
| 2 | 08/09/2023 | REV FOR CPDC SUBMITTAL |
| 3 | 10/02/2023 | REV FOR CPDC SUBMITTAL |
| 4 | 10/18/2023 | REV FOR CPDC COMMENTS |
| 5 | 12/15/2023 | REV FOR TOWN COMMENTS |

NUMERIC SUMMARY

| LABEL | CALCTYPE | UNITS | AVG | MAX | MIN | AVG/MIN | MAX/MIN |
|------------------------|-------------|-------|------|-----|-----|---------|---------|
| PAVED SURFACE READINGS | ILLUMINANCE | FC | 3.43 | 9.5 | 0.5 | 6.88 | 19.00 |
| PROPERTY LINE READINGS | ILLUMINANCE | FC | 0.49 | 1.6 | 0.0 | N/A | N/A |

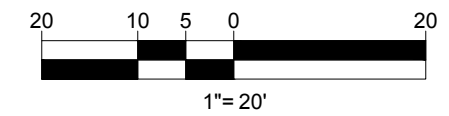


NOTE: THIS DETAIL IS FOR BID AND BUDGETARY PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A FOUNDATION DESIGN PREPARED BY A QUALIFIED STRUCTURAL ENGINEER CONSIDERING LIGHTING MANUFACTURER REQUIREMENTS, LOCAL WIND LOADS AND SITE SPECIFIC SOIL PARAMETERS.

- SOME SITE CONDITIONS AND/OR LOCATIONS MAY REQUIRE VIBRATION DAMPENING MEASURES AS DETERMINED BY A STRUCTURAL ENGINEER.
- THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF THE INTENT TO MOUNT ANYTHING TO THE POLE, ASIDE FROM THE LIGHT FIXTURES, INCLUDING BUT NOT LIMITED TO CAMERAS, BANNERS, FLAGS, SIGNAGE, ETC. AS IT WILL IMPACT THE POLE AND FOUNDATION DESIGN.

| SYMBOL | QTY | ARRANGEMENT | LUM. WATTS | LLF | DESCRIPTION | MOUNTING HEIGHT |
|--------|-----|-------------|------------|------|--|-----------------|
| ⊙ A | 4 | SINGLE | 419.1 | 0.90 | VP-ST-4-162L-420-AM-4W SES-18-40-17A-GL-XX (4) POLE PEAK WAVELENGTH = 595 NM | 21' |
| ⊙ B | 1 | BACK-BACK | 339.9 | 0.85 | VP-ST-4-162L-420-AM-4W SES-9-40-17A-GL-XX (4) POLE PEAK WAVELENGTH = 595 NM | 12' |
| ⊙ C | 1 | SINGLE | 339.9 | 0.85 | VP-ST-4-162L-420-AM-4W SES-9-40-17A-GL-XX (4) POLE PEAK WAVELENGTH = 595 NM | 12' |
| • D | 10 | SINGLE | 13,318 | 0.90 | EL218WFS-8L3K | 9.08' & 10.67' |
| ⊙ E | 5 | SINGLE | 15.0 | 0.90 | RWSC-38L-3K-DO-U-PS | 11' |
| ⊙ F | 7 | SINGLE | 14.4 | 0.90 | RWSC-38L-3K-DO-U-WH | 9.33' & 10.92' |
| ⊙ G | 6 | SINGLE | 14.4 | 0.90 | SLED-HE-24-DO-3K-UNV | 9.33' |
| ⊙ H | 5 | SINGLE | 9.79 | 0.90 | SLED-HE-36-DO-3K-UNV | 18.83' |
| ⊙ I | 2 | SINGLE | 14.1 | 0.90 | LOG-CP-65W-U-AMBER-XX-D1 | 18.83' |
| ⊙ J | 2 | SINGLE | 65 | 0.90 | LOG-CP-65W-U-AMBER-XX-D1 | 10.75' |

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



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|--------------------|---------------------|
| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: | W222000 |
| CAD I.D. #: | W222000-SPPD-5a.dwg |

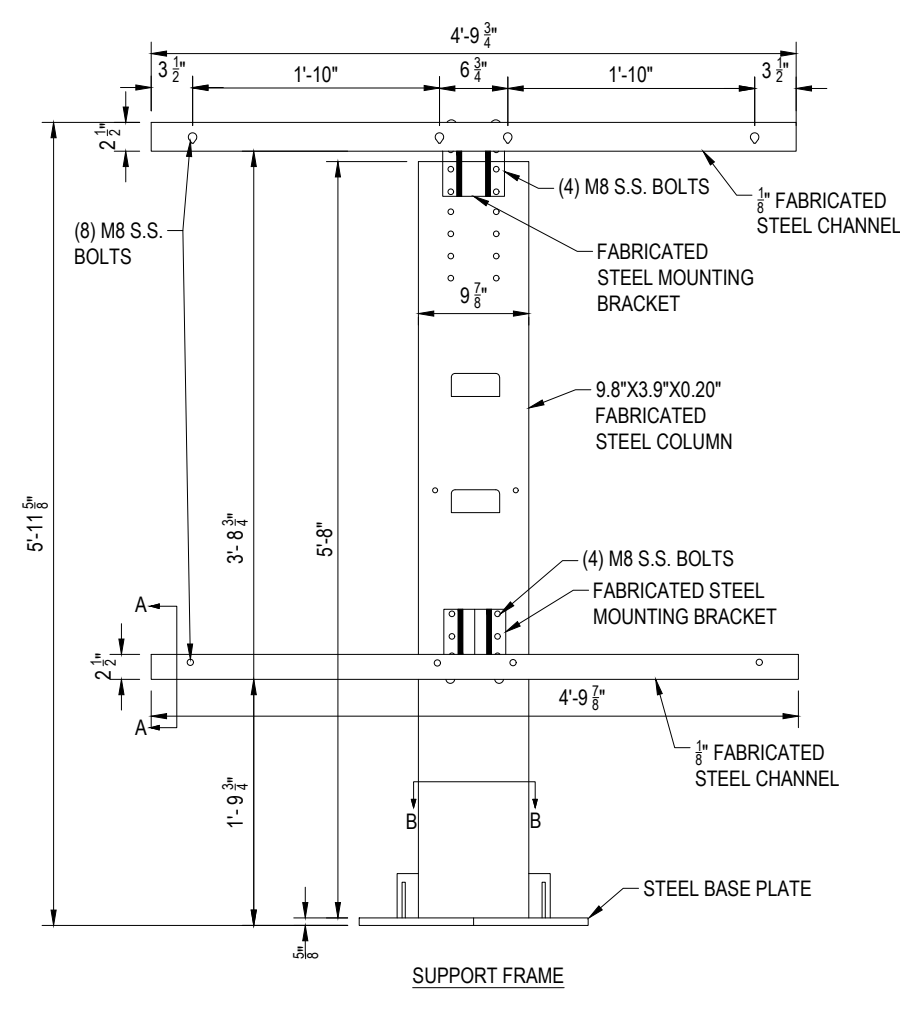
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|--|--|
| STREET ADDRESS 413 MAIN STREET | |
| CITY READING | STATE MA |
| COUNTY MIDDLESEX | |
| SITE I.D. 20-0015 | PLAN DESCRIPTION LIGHTING PLAN |

| | | |
|--------------|--------------|-----|
| STATUS | DATE | BY |
| DRAWN BY: | 04/28/2023 | CSE |
| PLAN CHECKED | - | - |
| AS-BUILT | - | - |
| SHEET No. | C-703 | |
| | OF 15 | |

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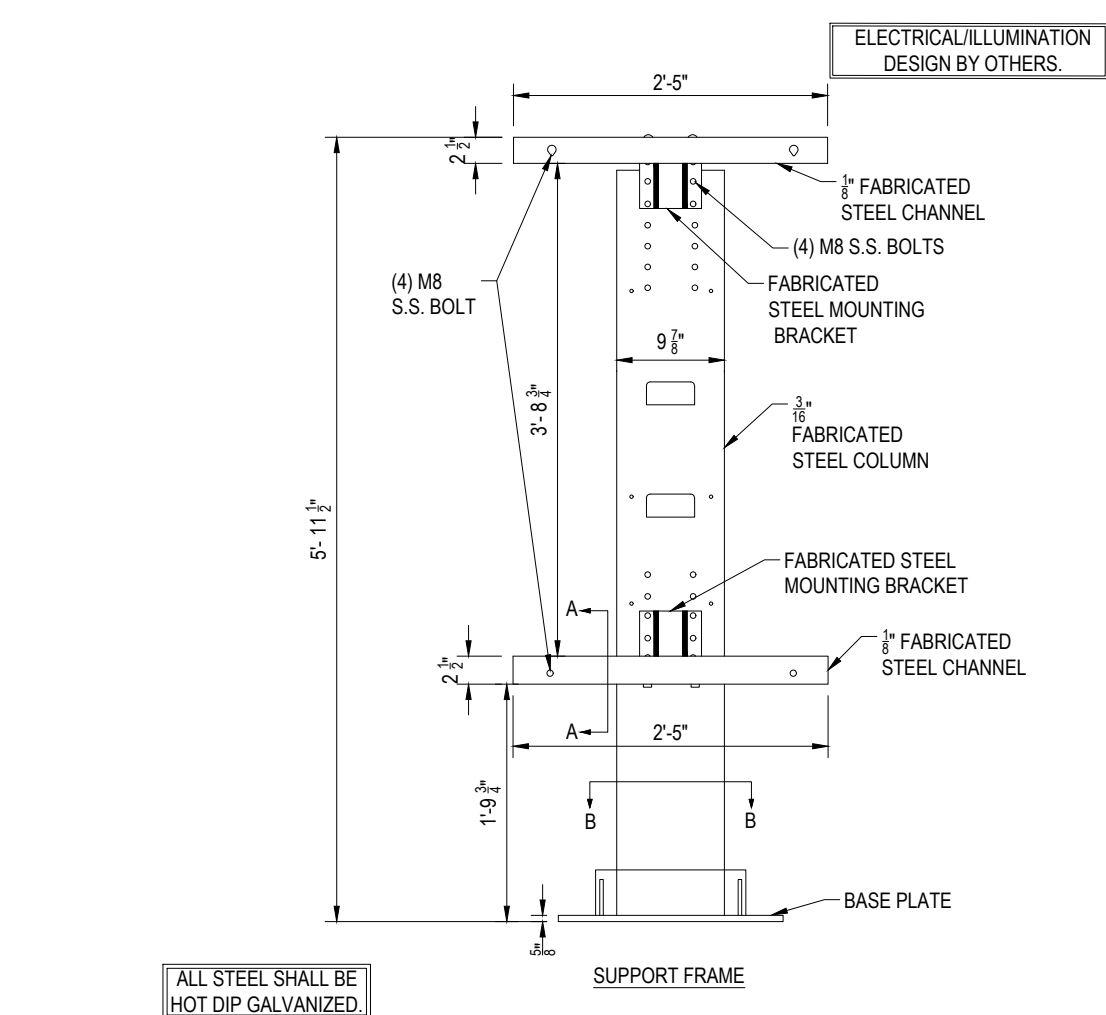
AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION. THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF MCDONALD'S CORPORATION

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BOSTON REGION
110 N CARPENTER ST
CHICAGO, IL 60687



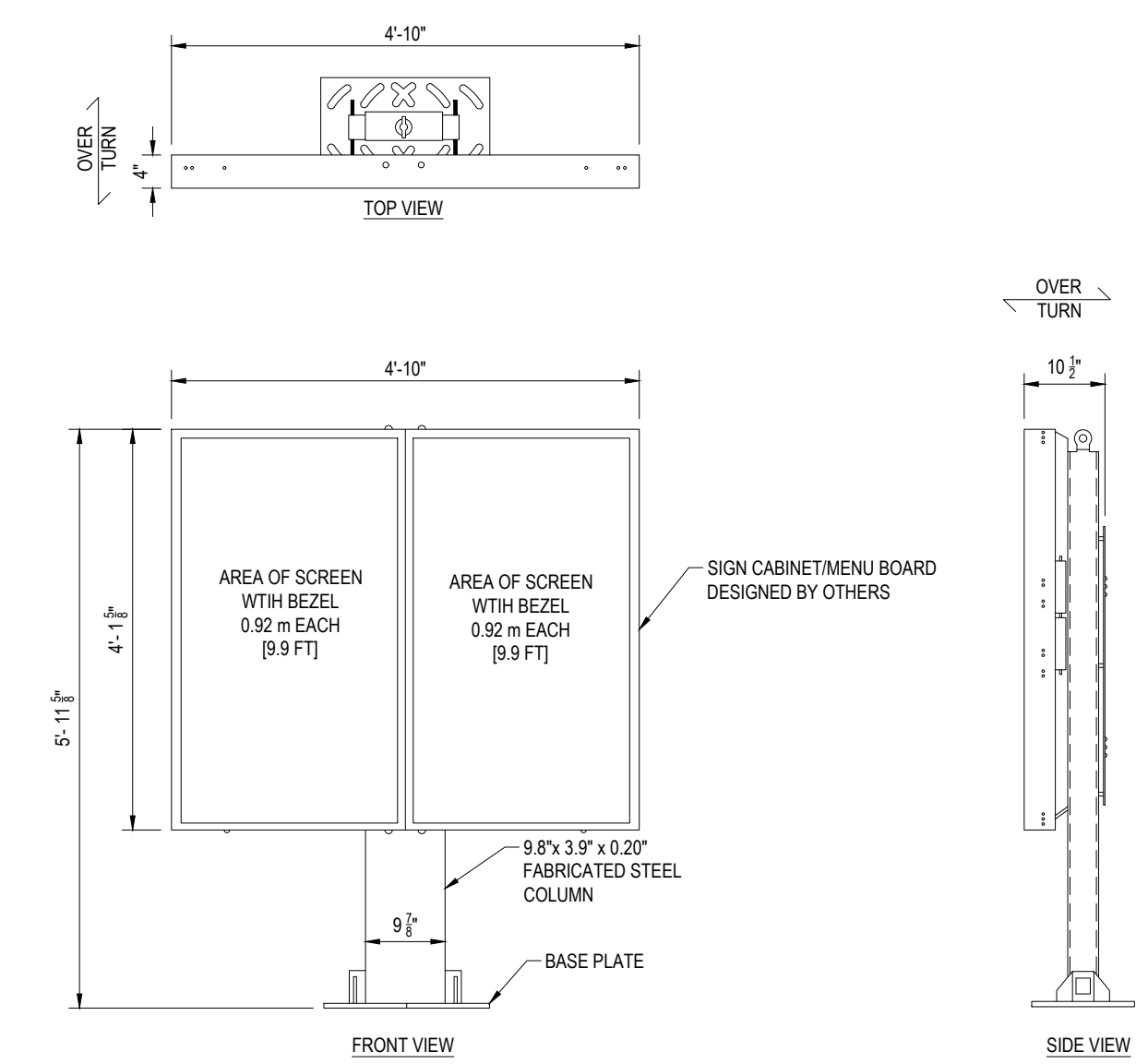
DIGITAL MENU BOARD DETAIL

N.T.S.



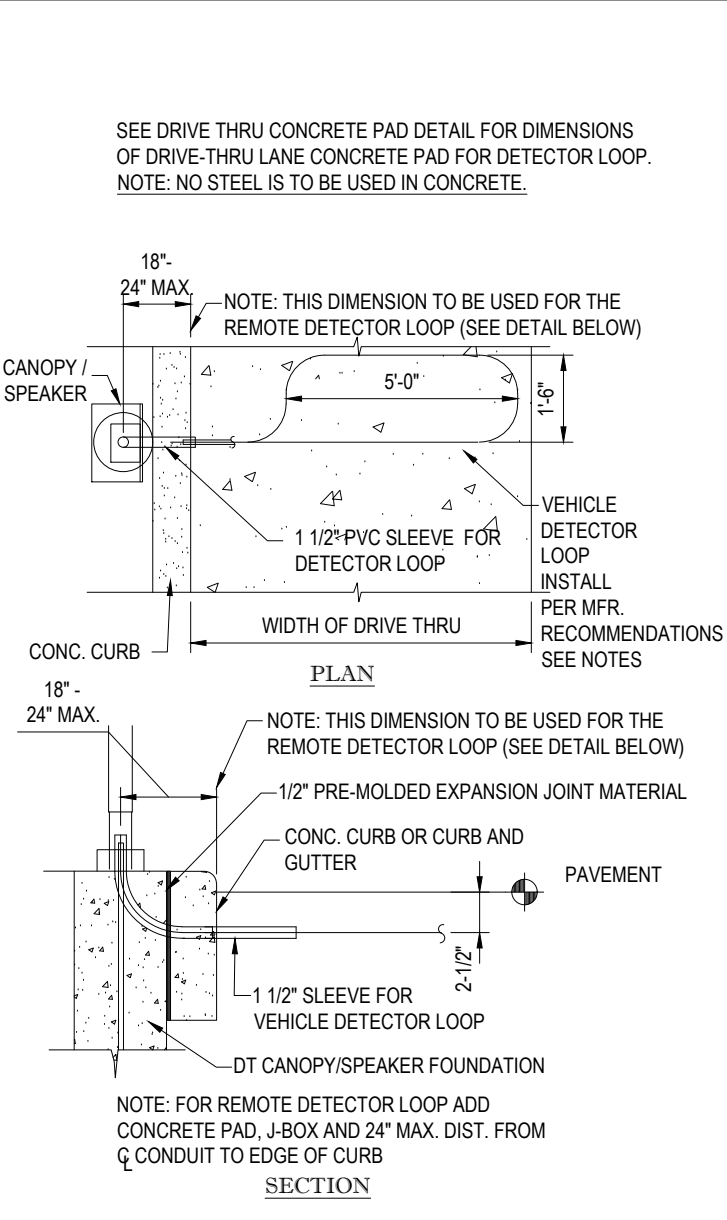
DIGITAL PRE-BROWSE BOARD DETAIL

N.T.S.



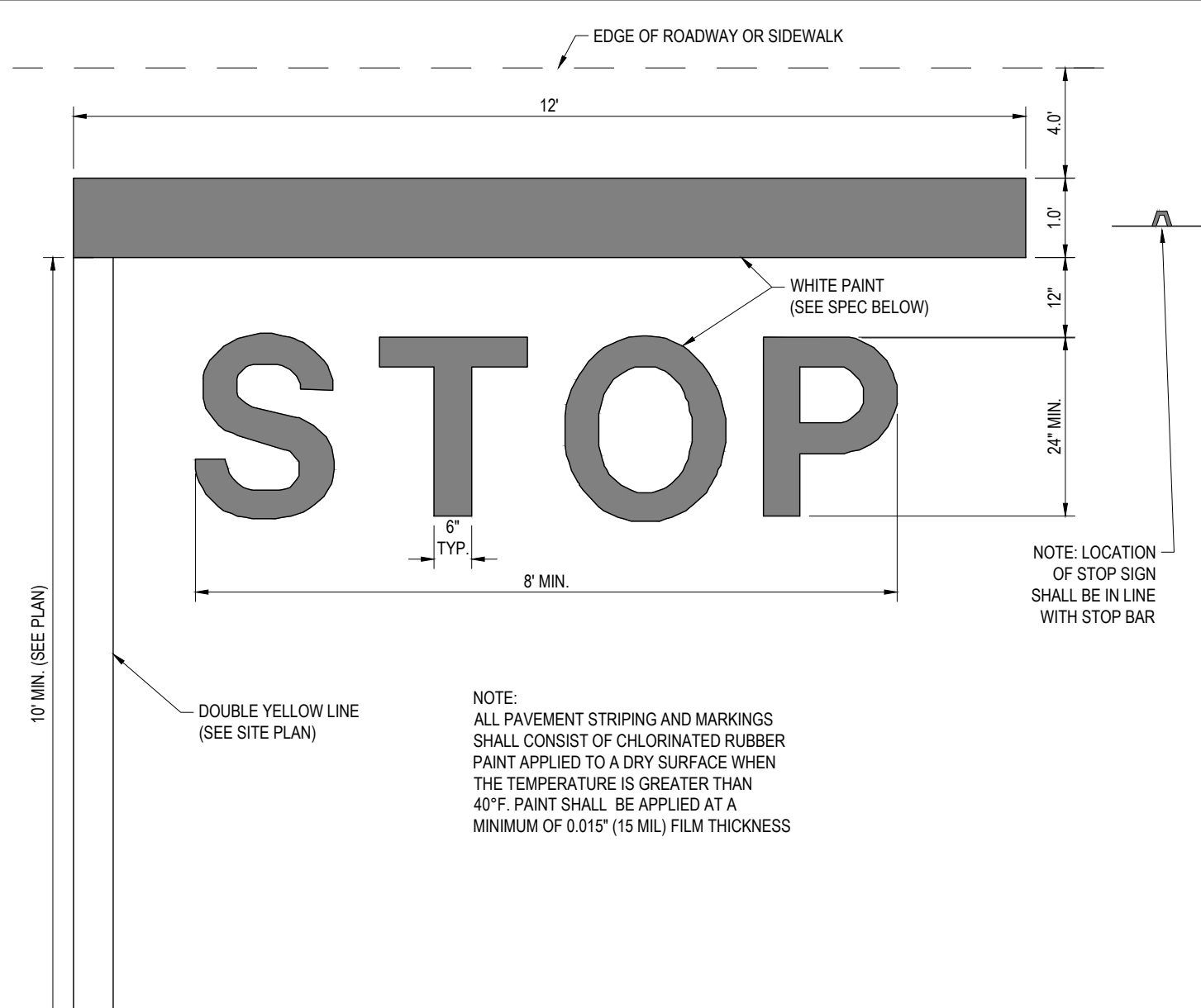
CROSSWALK DETAIL

N.T.S.



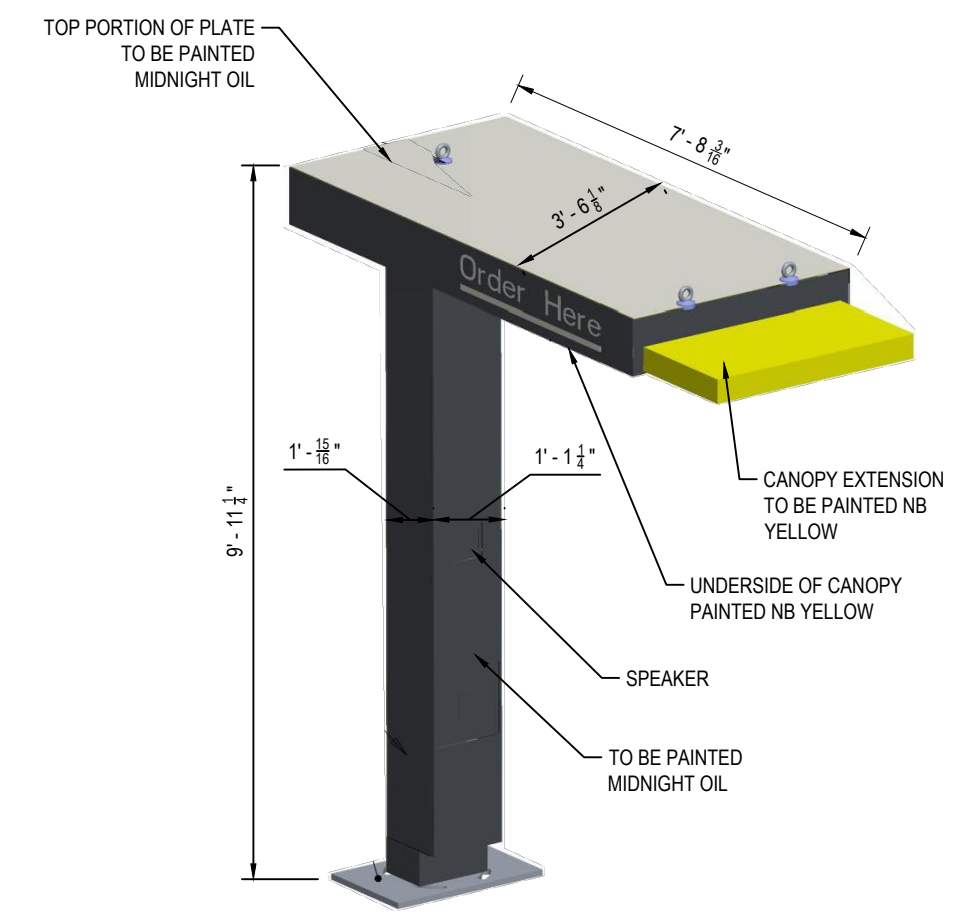
AUTO DETECTOR LOOP DETAIL

N.T.S.



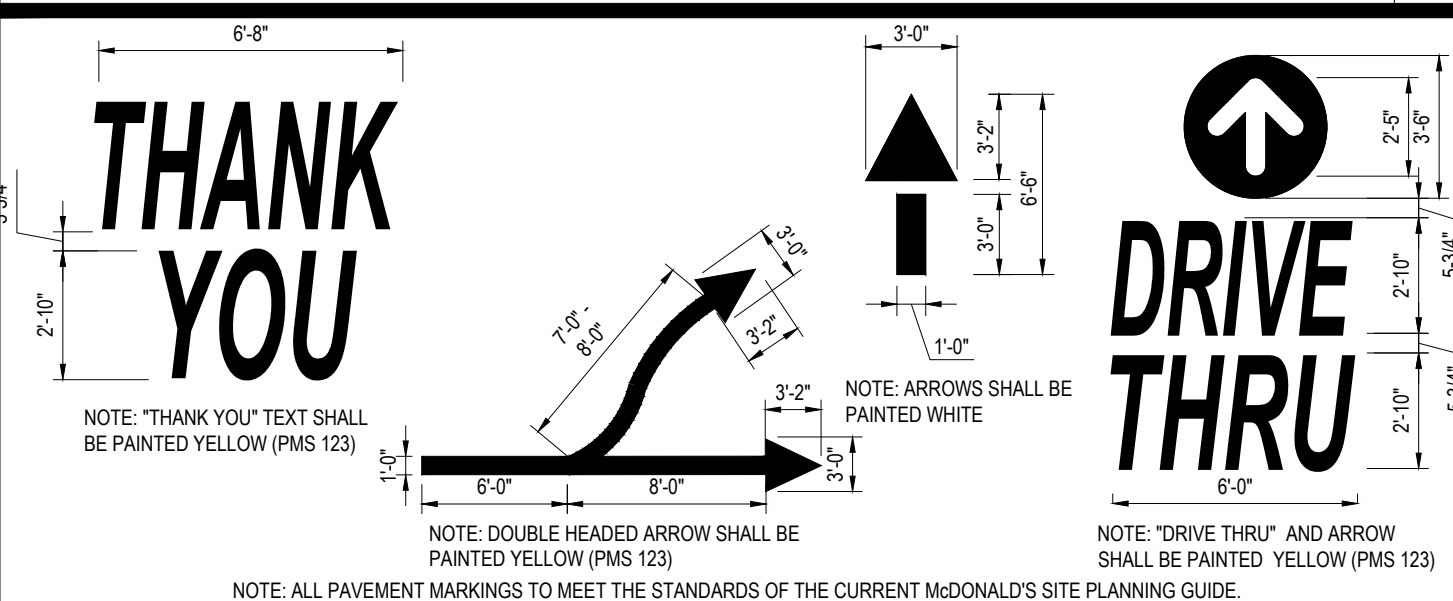
'STOP' BAR DETAIL

N.T.S.



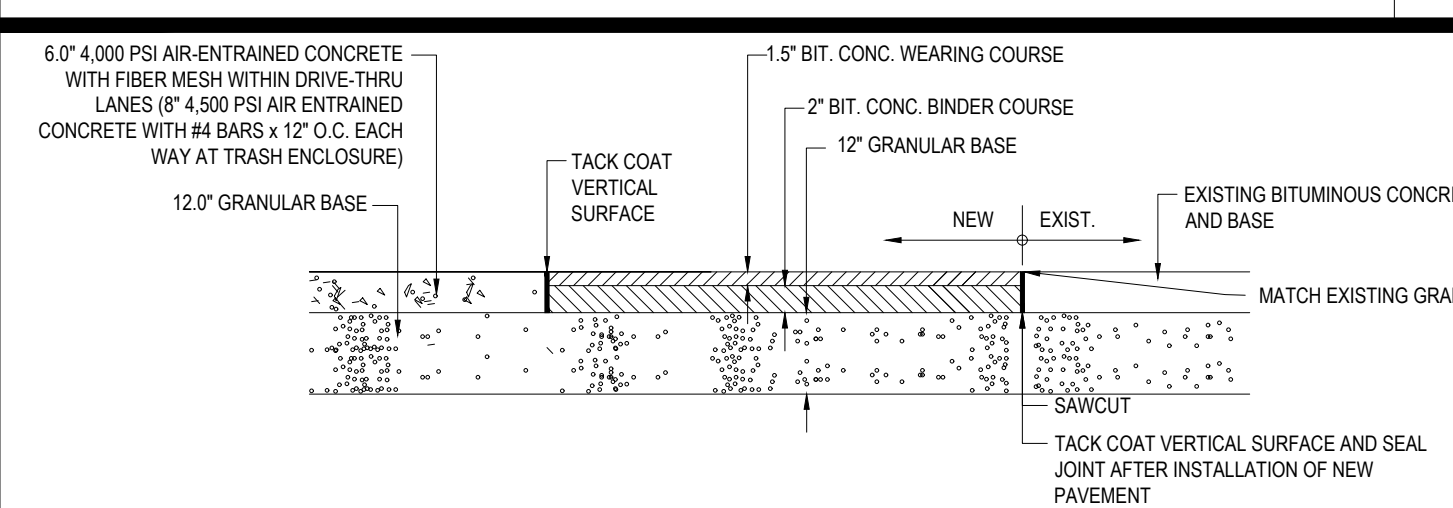
DRIVE-THRU CANOPY/SPEAKER DETAIL

N.T.S.



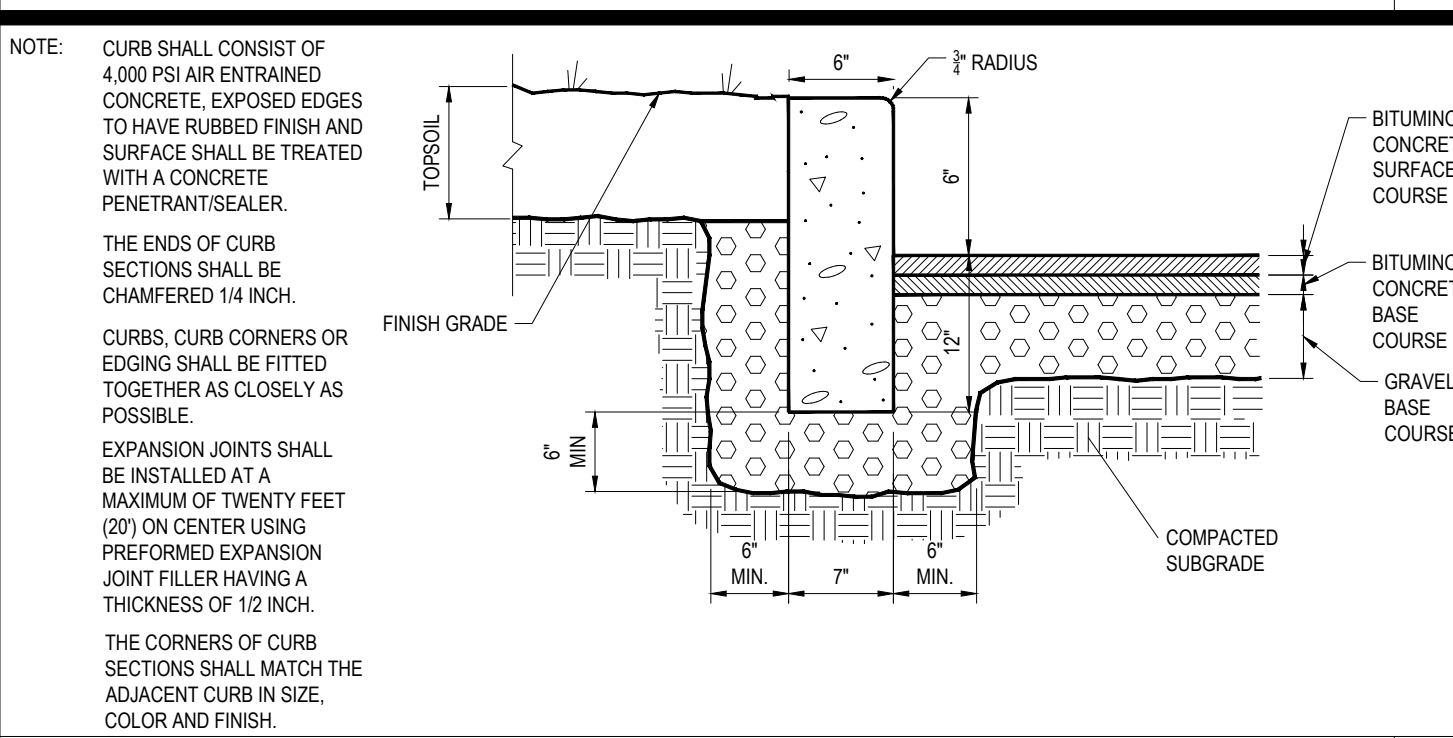
TYPICAL PAVEMENT MARKINGS

N.T.S.



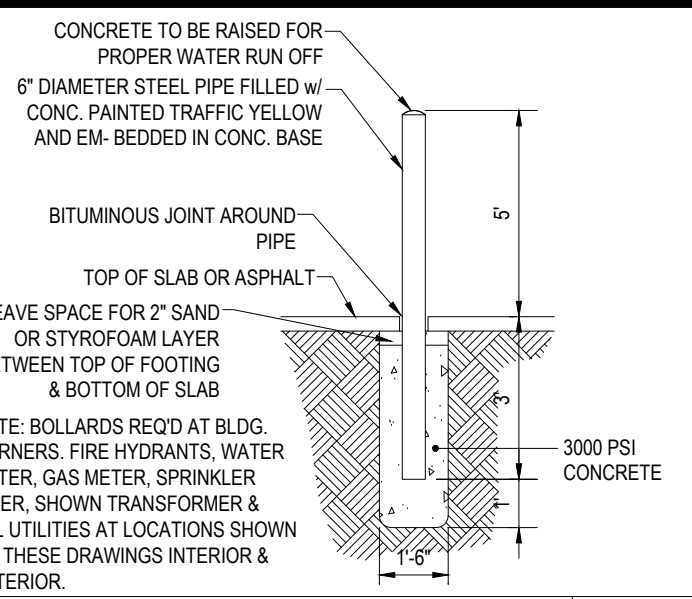
CONCRETE & BITUMINOUS CONCRETE PAVING DETAIL

N.T.S.



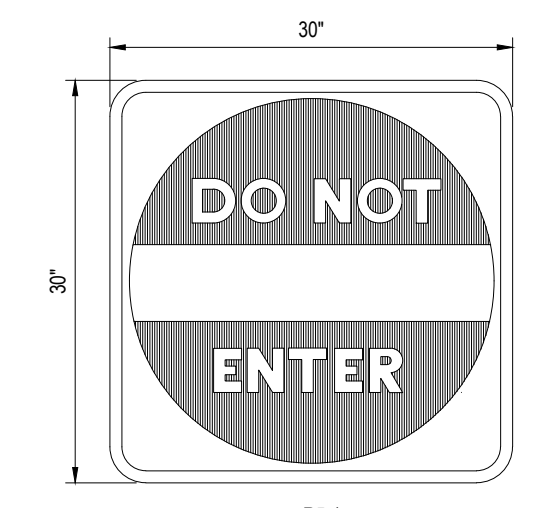
PRECAST CONCRETE CURB DETAIL

N.T.S.



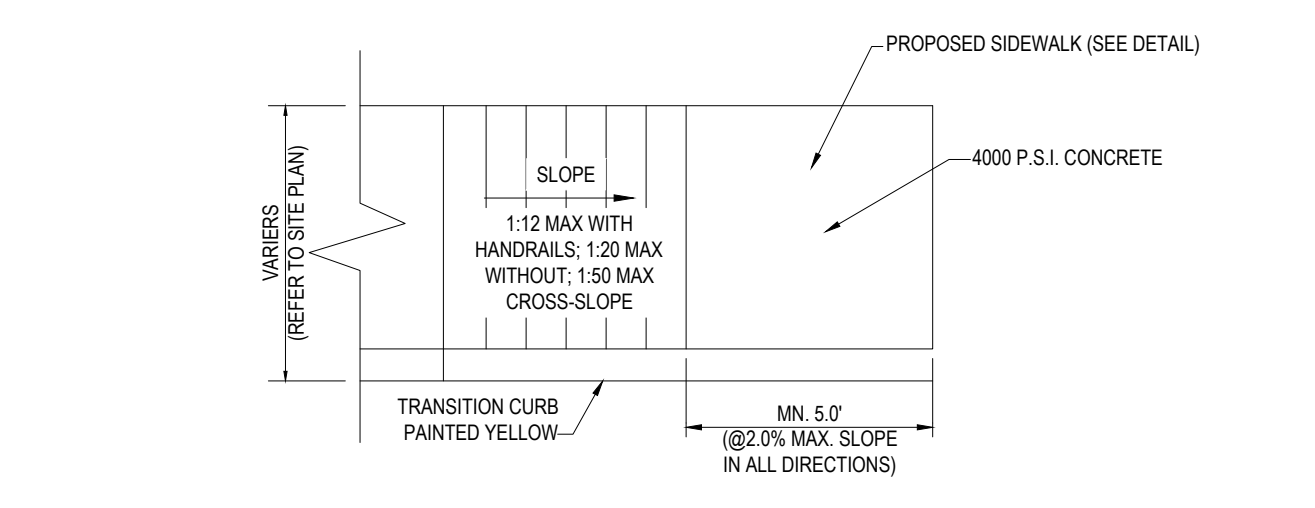
BOLLARD DETAIL

N.T.S.



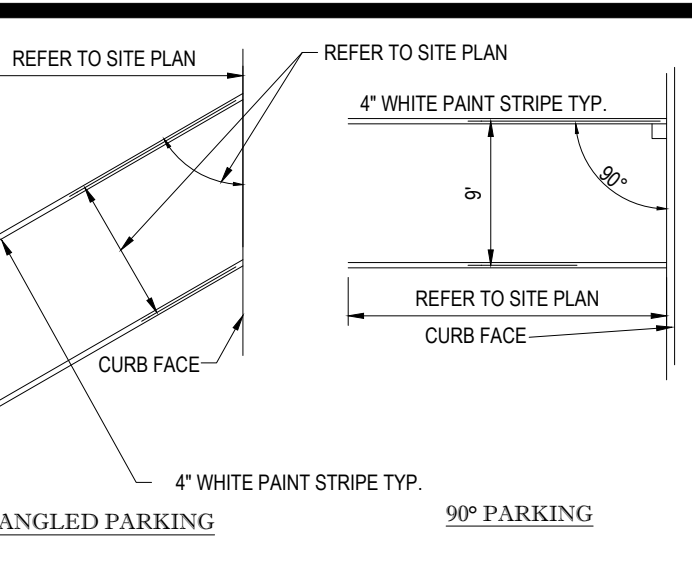
'DO NOT ENTER' SIGN

N.T.S.



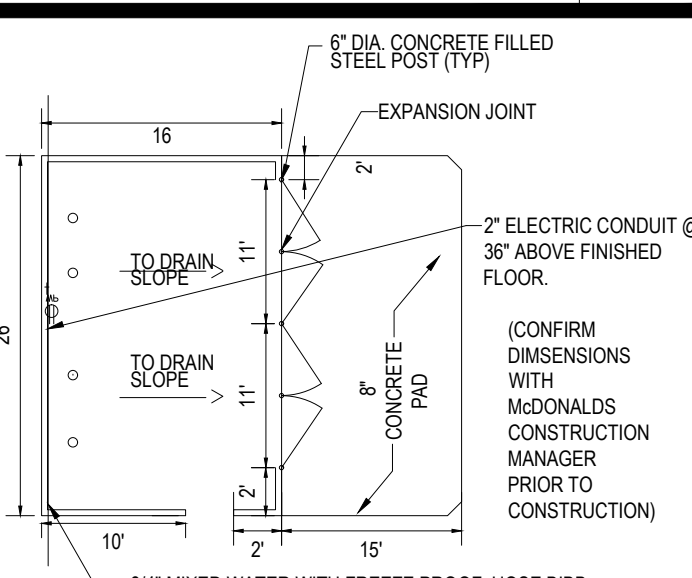
ADA COMPLIANT SLOPED SIDEWALK

N.T.S.



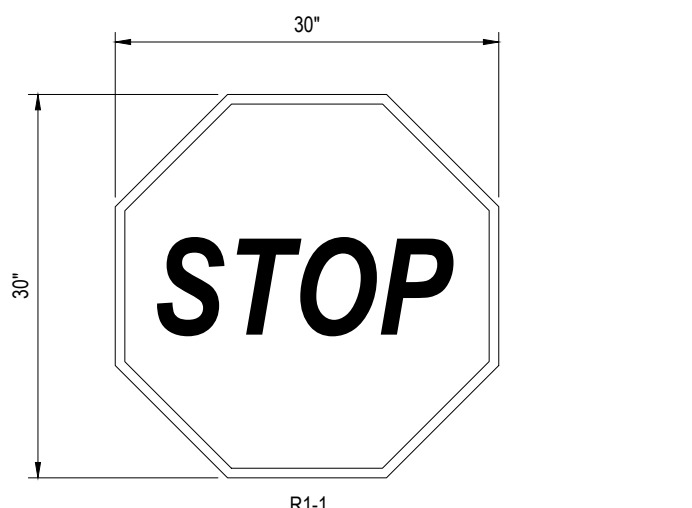
STALL STRIPING

N.T.S.



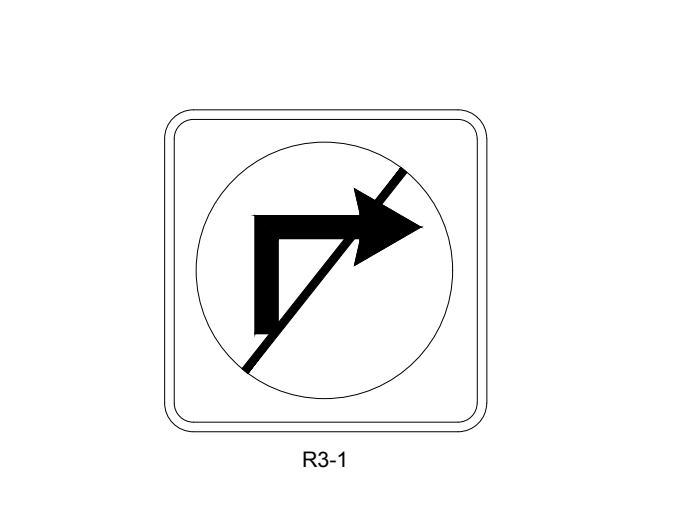
TRASH ENCLOSURE

N.T.S.



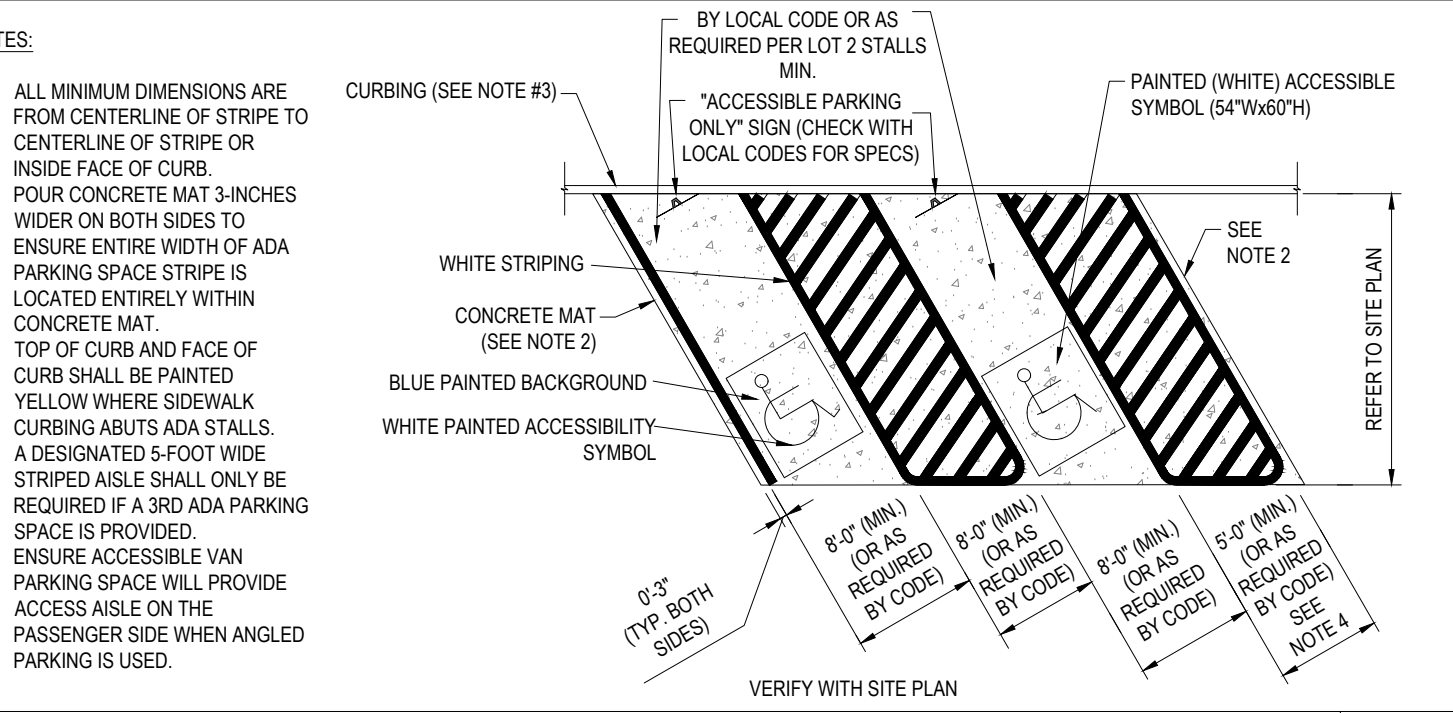
'STOP' SIGN

N.T.S.



'NO RIGHT TURN' SIGN

N.T.S.



ACCESSIBLE STALL MARKING

N.T.S.

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PERMITTING SERVICES
TRANSPORTATION SERVICES

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| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: | W222000 |
| CAD I.D. #: | W222000-SPPD-5a.dwg |

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| STREET ADDRESS 413 MAIN STREET | |
| CITY READING | STATE MA |
| COUNTY MIDDLESEX | |
| SITE I.D. 20-0015 | PLAN DESCRIPTION DETAIL SHEET |

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| STATUS | DATE | BY |
| DRAWN BY: | 04/28/2023 | CSE |
| PLAN CHECKED | - | - |
| AS-BUILT | - | - |
| SHEET NO. | C-901 | |
| | OF 15 | |

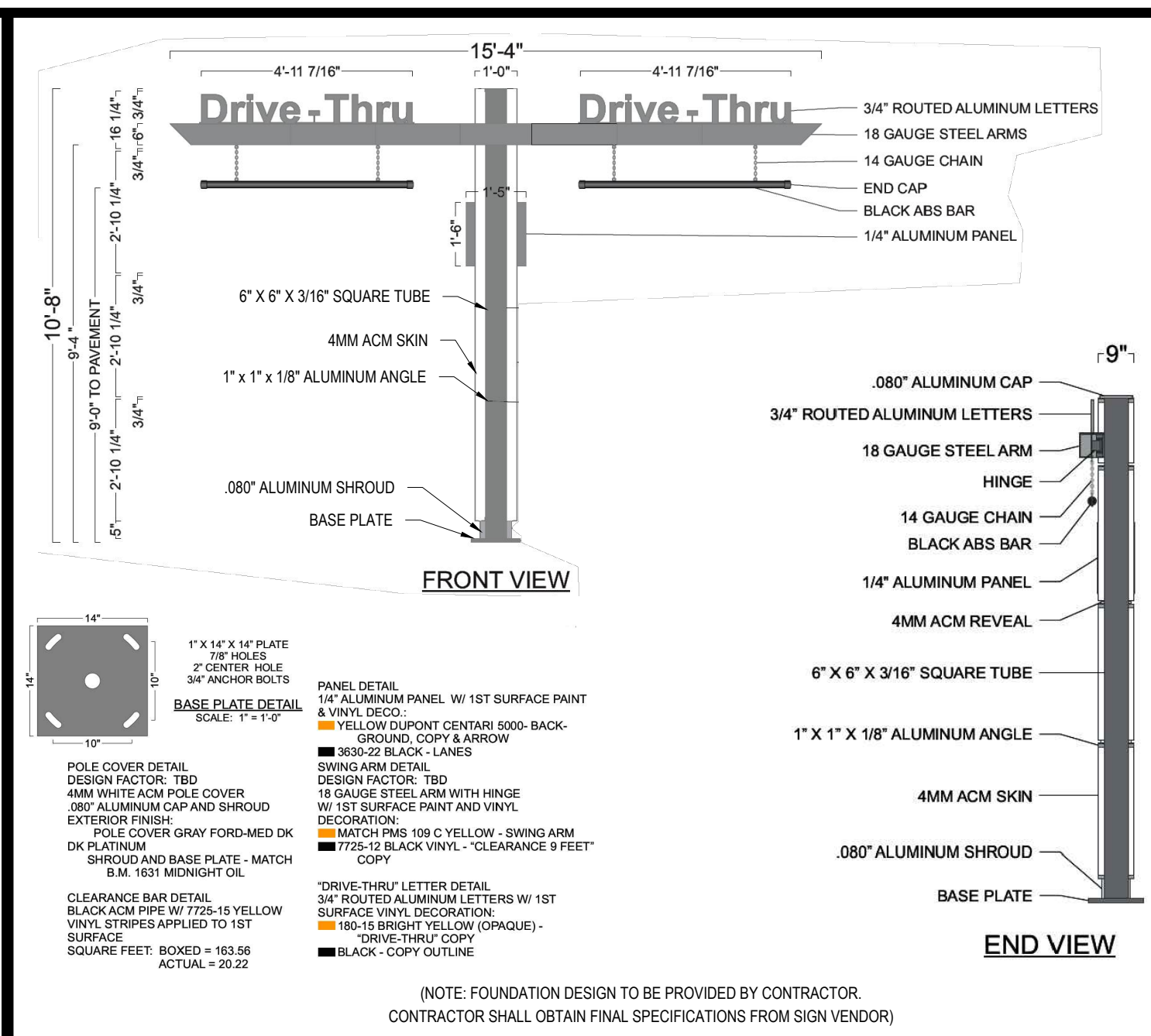


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CHICAGO, IL 60687

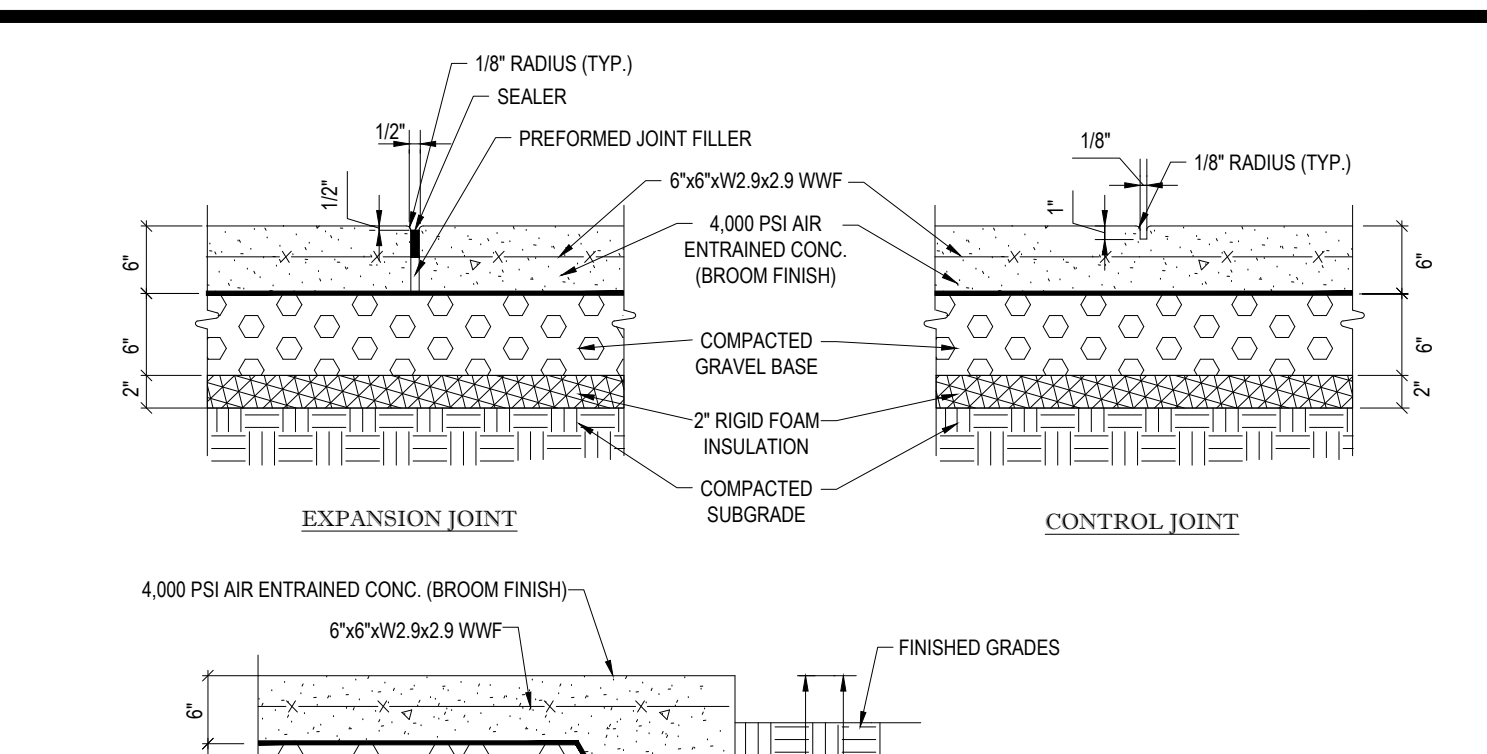
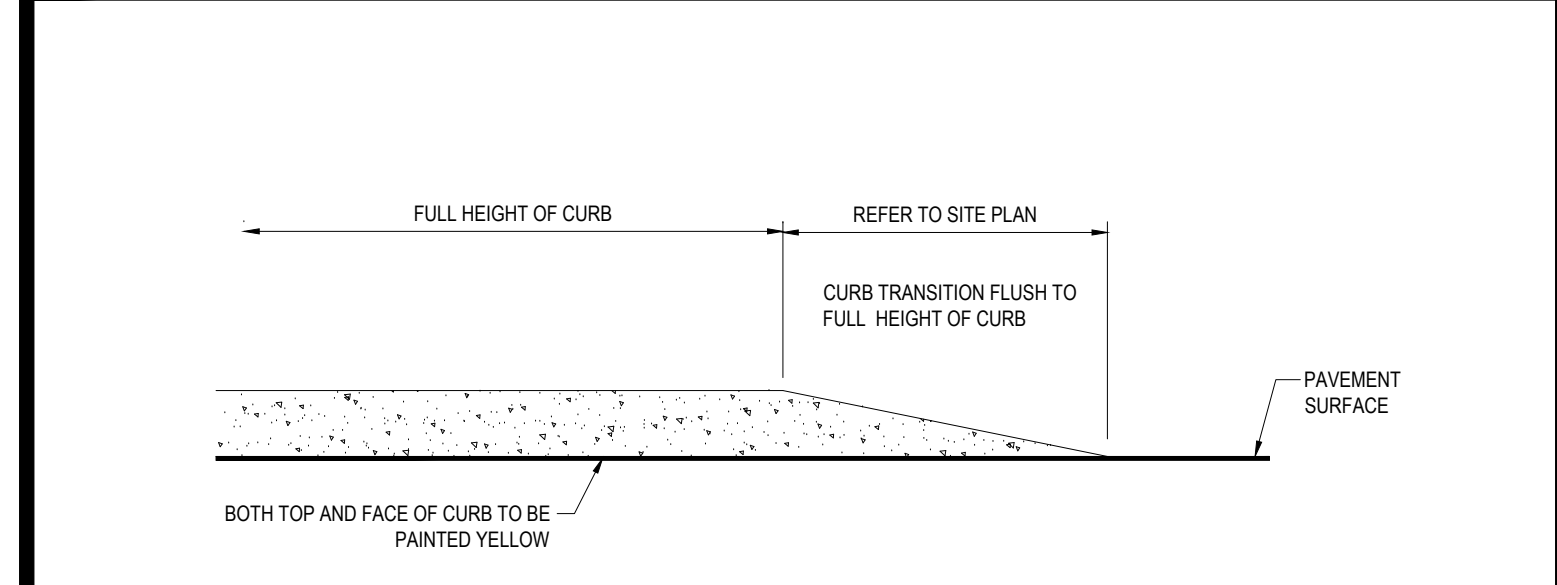
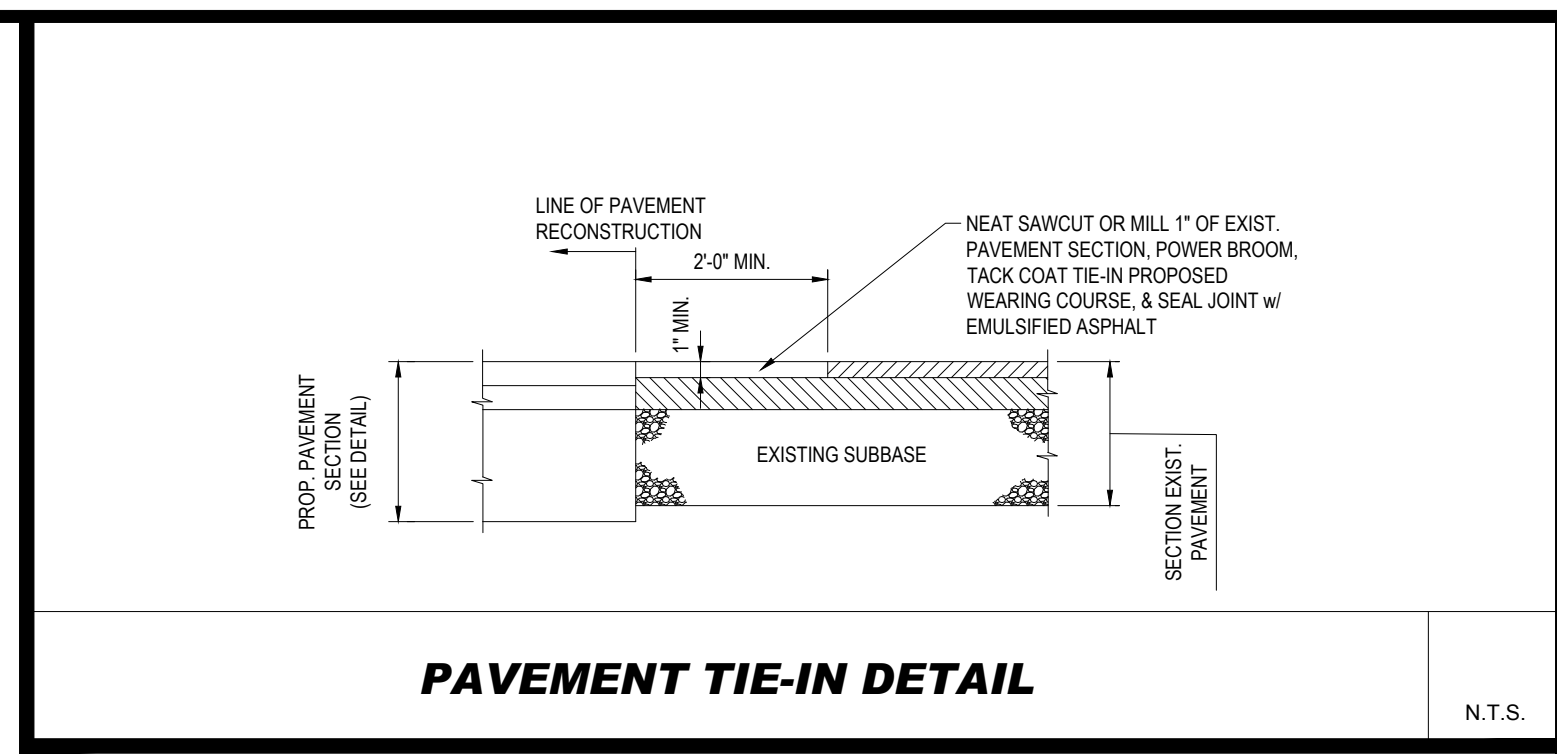
| | |
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| OFFICE ADDRESS | DATE |
| SIGNATURE | DATE |
| APPROVED MCDONALD'S AGENT | |



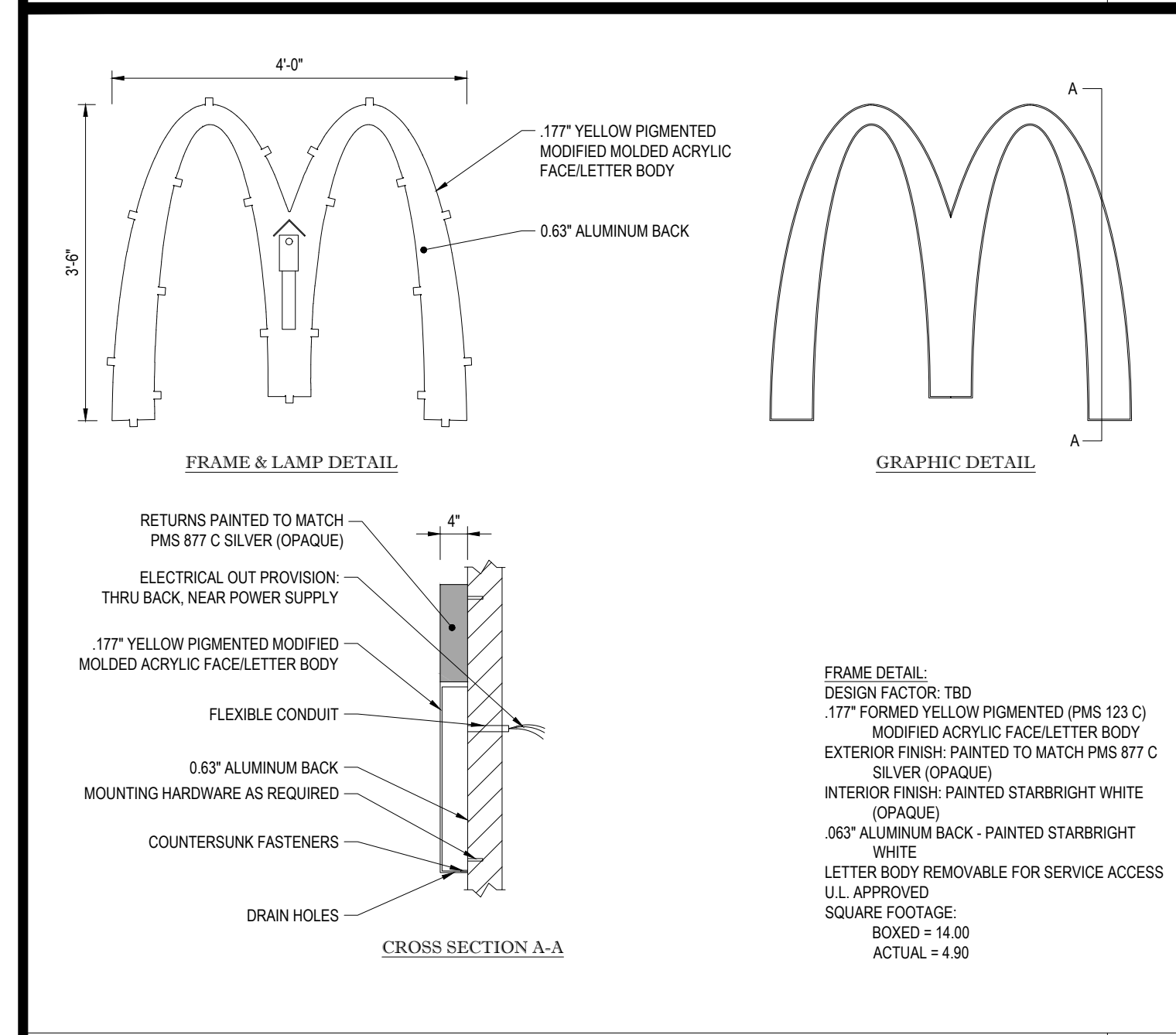
CURBSIDE PICKUP, McDELIVERY & DRIVE-THRU RESERVED SIGNS N.T.S.



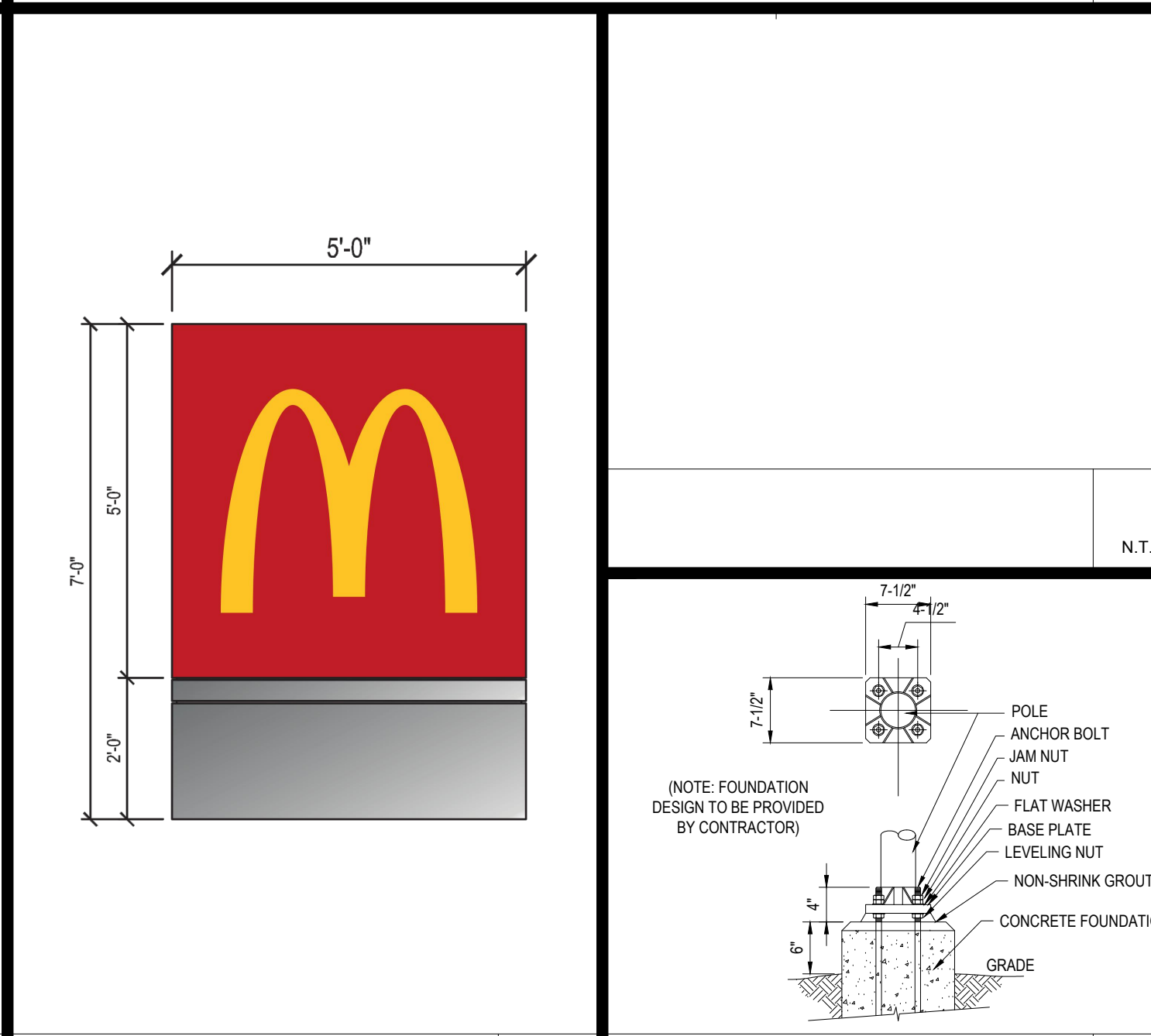
GATEWAY CLEARANCE BAR N.T.S.



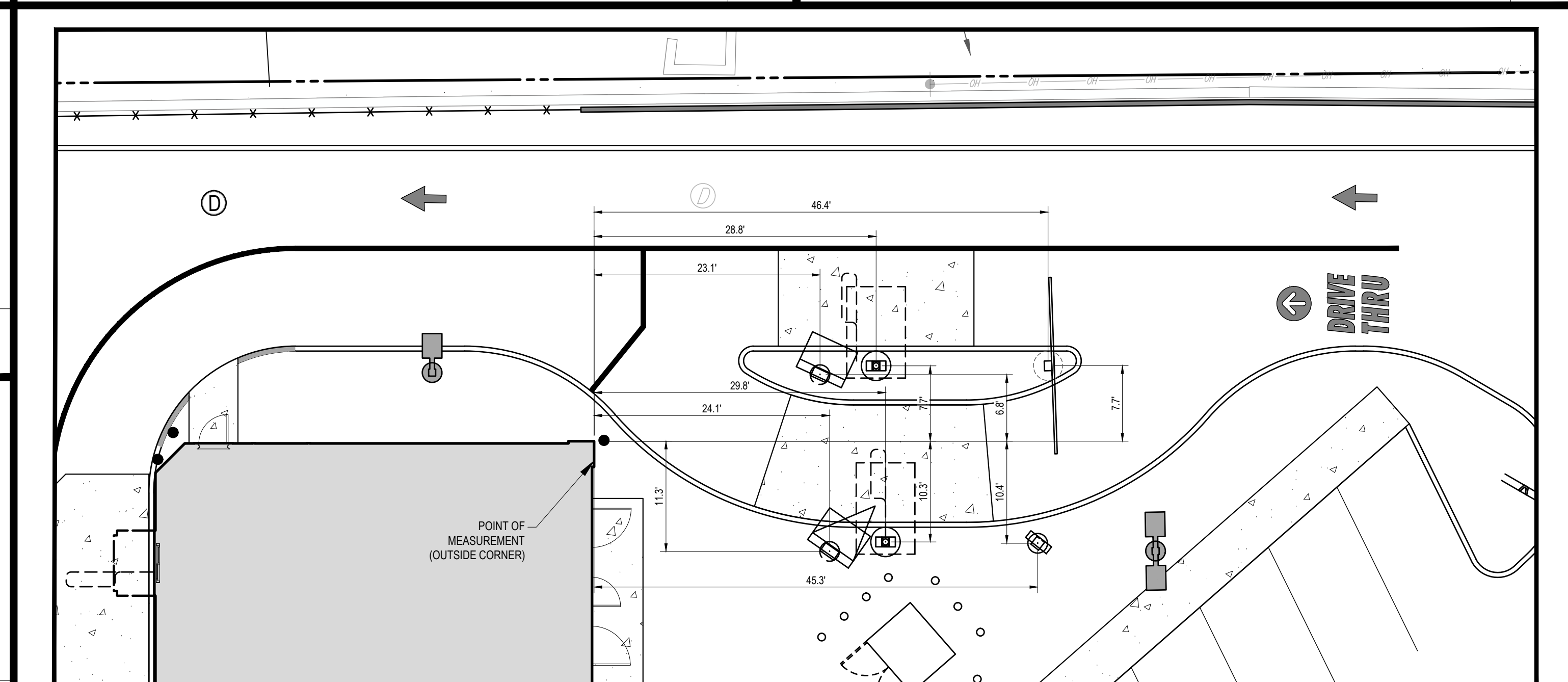
MONOLITHIC CONC. SIDEWALK DETAILS N.T.S.



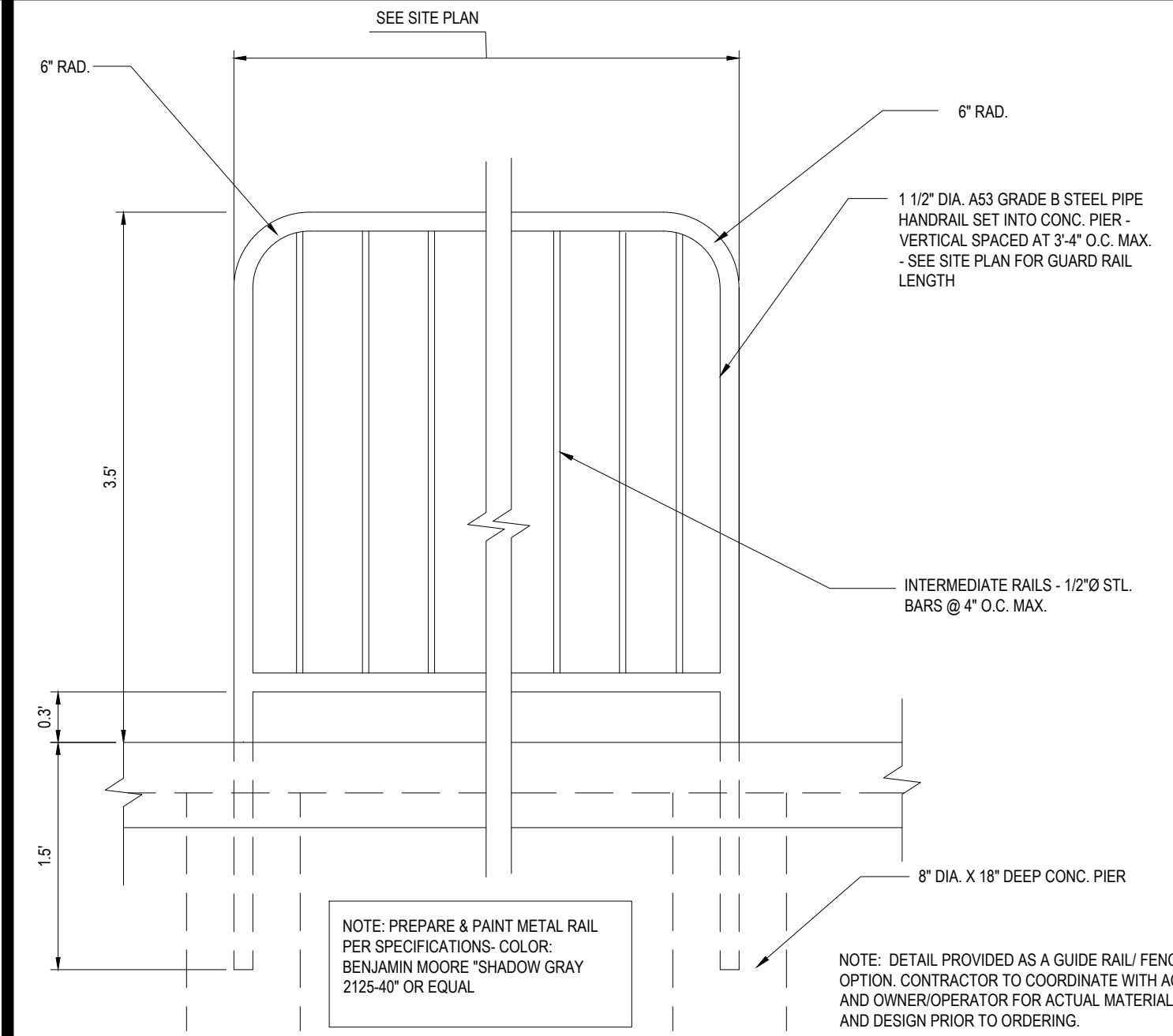
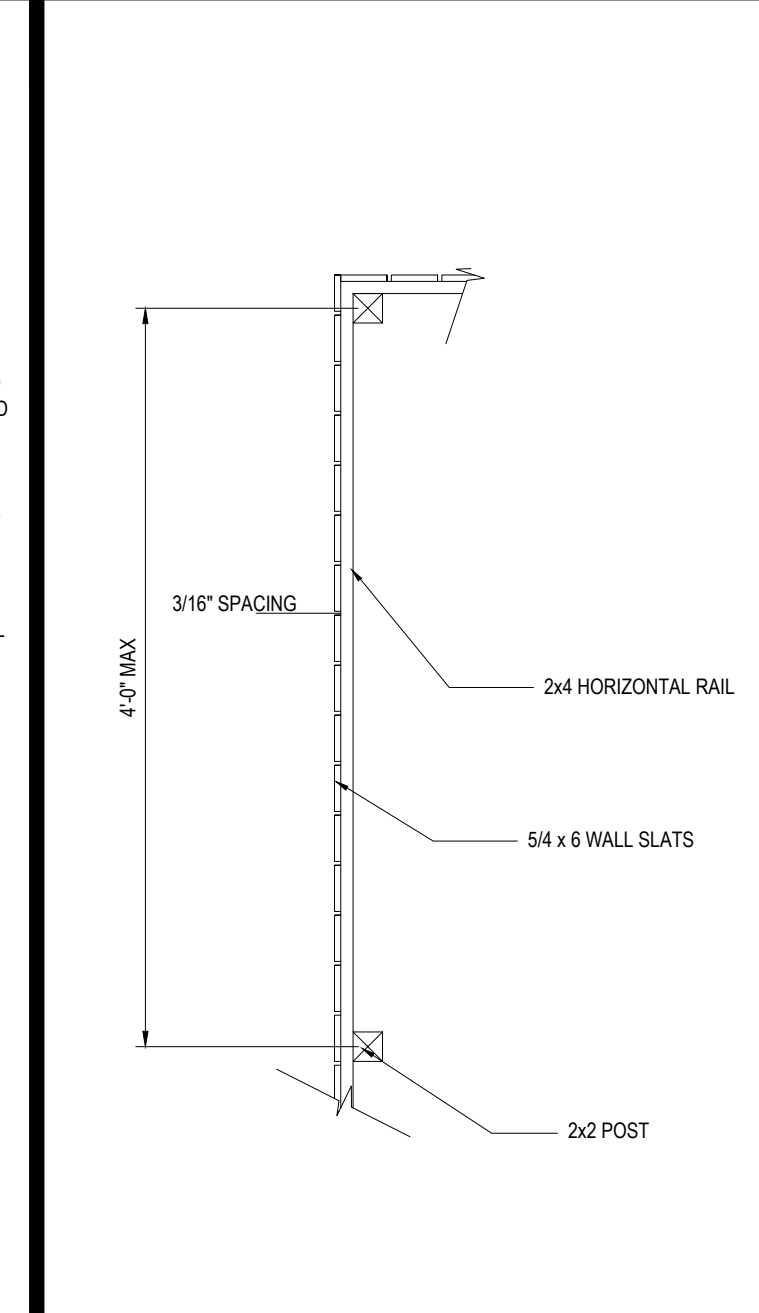
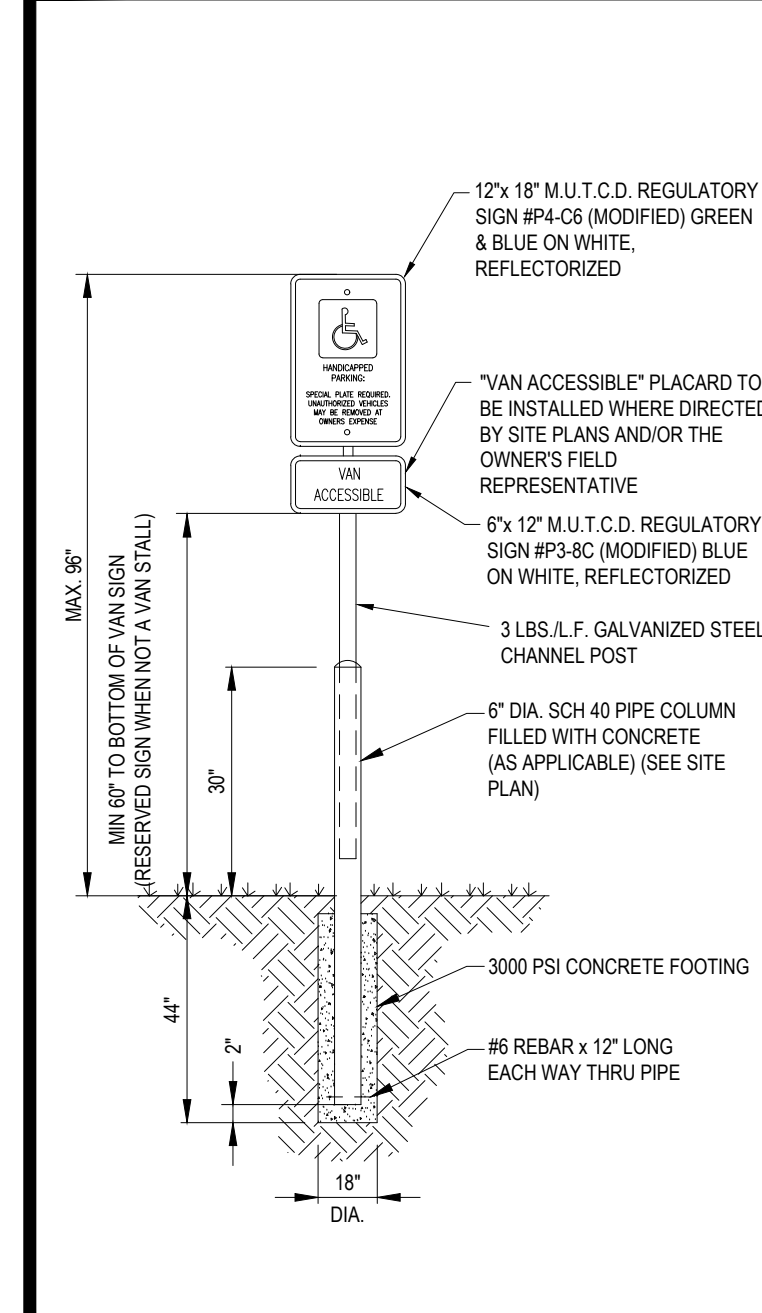
MCD WALL ARCH DETAIL N.T.S.



MCD "5" MAIN ID MONUMENT SIGN N.T.S.



DRIVE-THRU N.T.S.



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|---------------------------------|------|
| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: W222000 | |
| CAD I.D. #: W222000-SPDD-5a.dwg | |

STREET ADDRESS
413 MAIN STREET

CITY
READING

COUNTY
MIDDLESEX

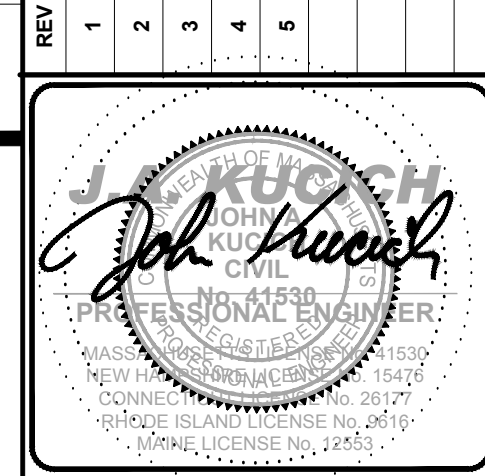
SITE I.D.
20-0015

STATE
MA

PLAN DESCRIPTION
DETAIL SHEET

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|--------------|--------------|-----|
| STATUS | DATE | BY |
| DRAWN BY: | 04/28/2023 | CSE |
| PLAN CHECKED | - | - |
| AS-BUILT | - | - |
| SHEET NO. | C-902 | |
| | OF 15 | |

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------------|
| 1 | 06/12/2023 | REV. PER ZBA & ABITTERS FEEDBACK |
| 2 | 08/09/2023 | REV. FOR CPDC SUBMITTAL |
| 3 | 10/02/2023 | REV. FOR CPDC SUBMITTAL |
| 4 | 10/18/2023 | REV. FOR CPDC COMMENTS |
| 5 | 12/15/2023 | REV. FOR TOWN COMMENTS |



McDonald's

BOSTON REGION
110 N CARPENTER ST
CHICAGO, IL 60687

OFFICE ADDRESS

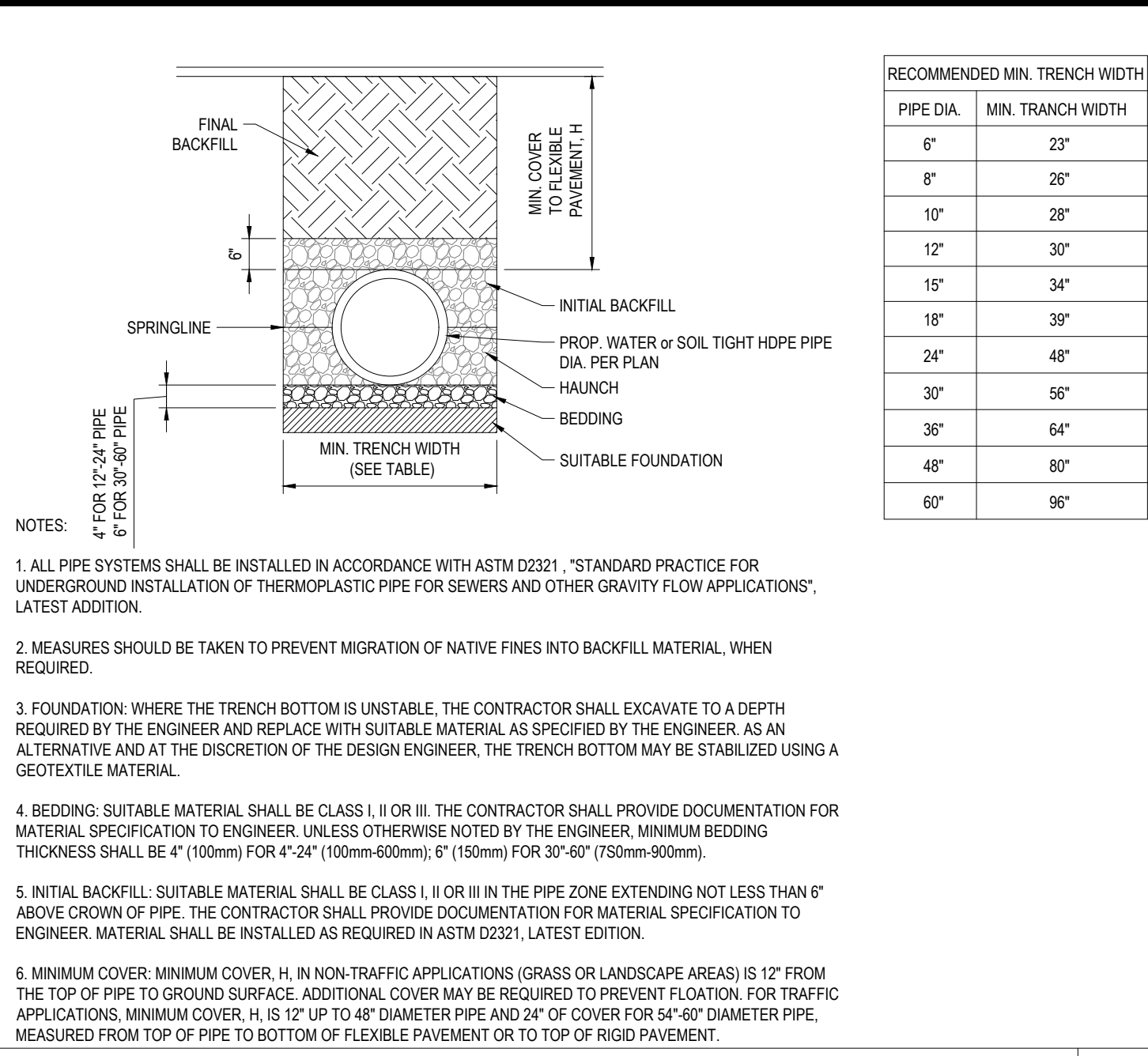
AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION. THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF MCDONALD'S CORPORATION

PLAN APPROVALS

SIGNATURE

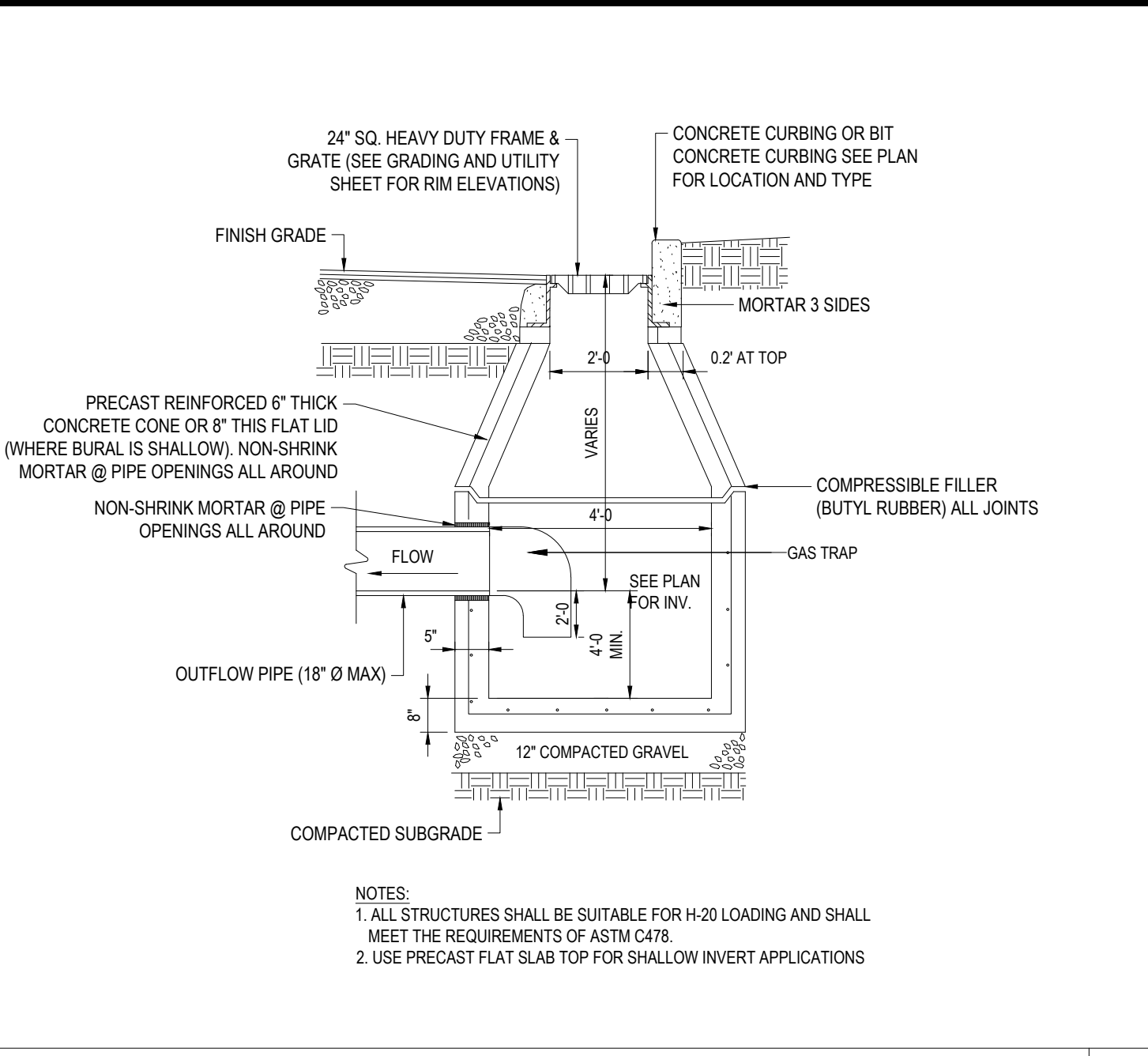
DATE

APPROVED MCDONALD'S AGENT



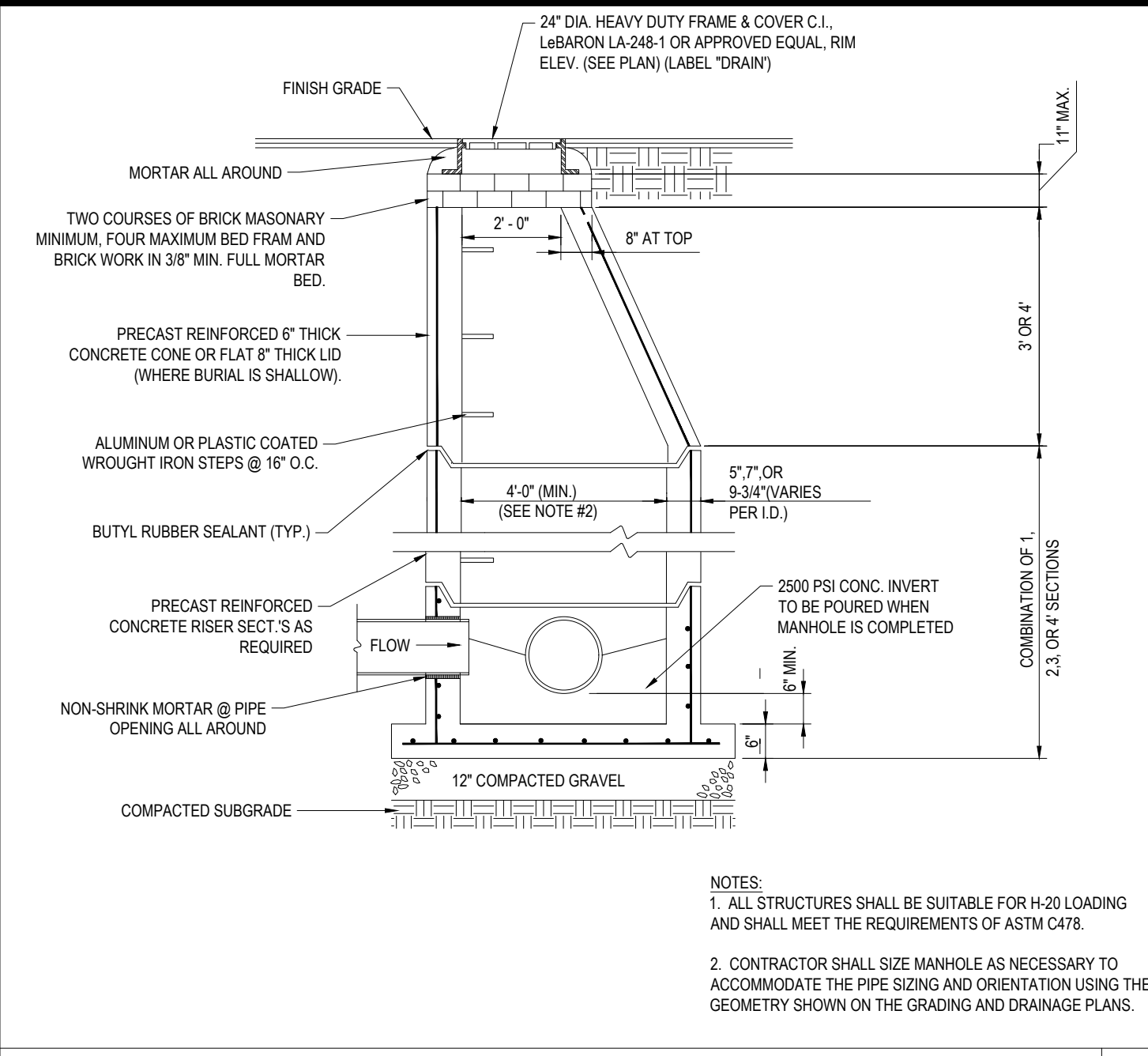
HDPE STORM DRAINAGE TRENCH

N.T.S.



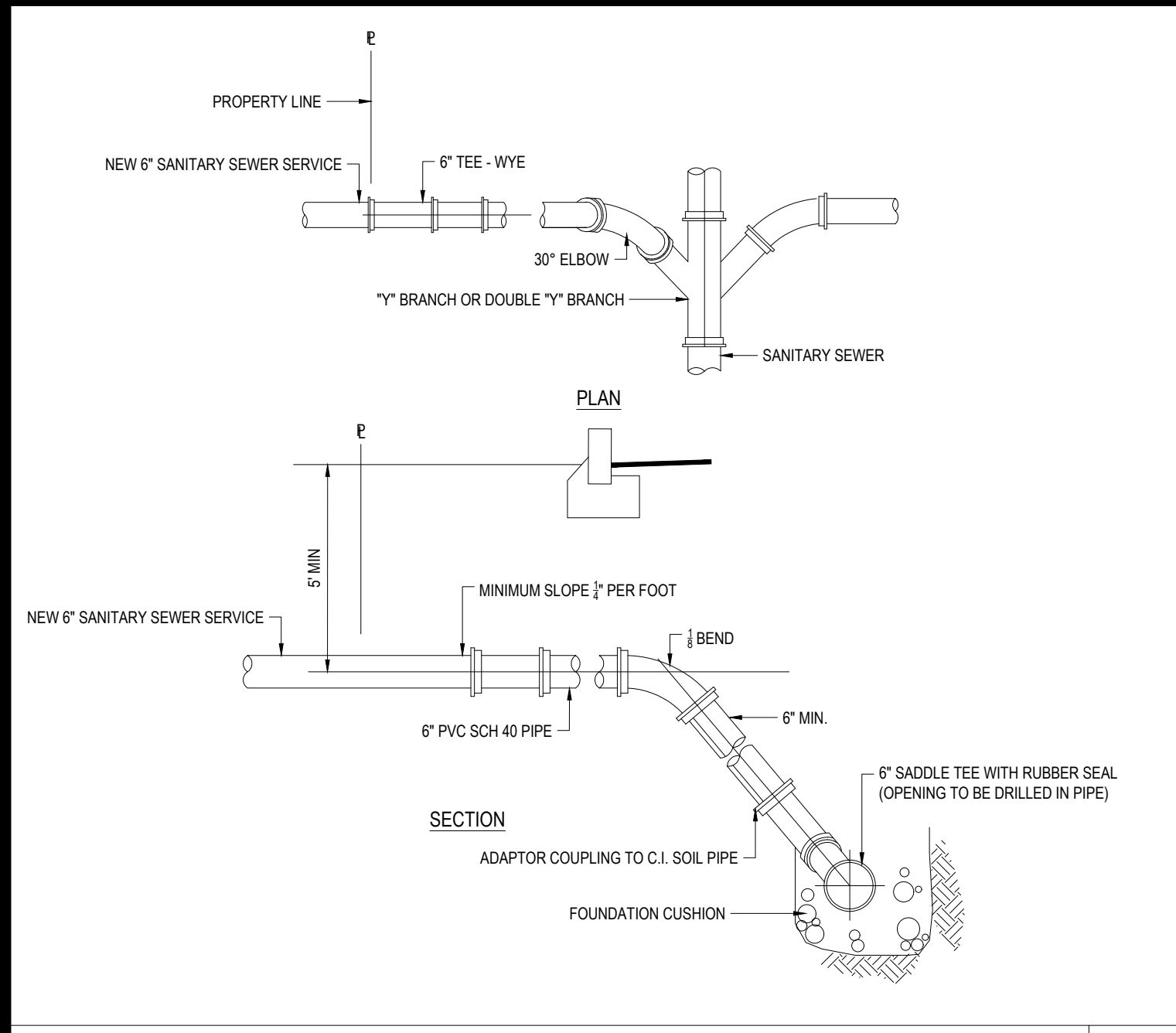
PRECAST CONCRETE DEEP SUMP CATCH BASIN

N.T.S.



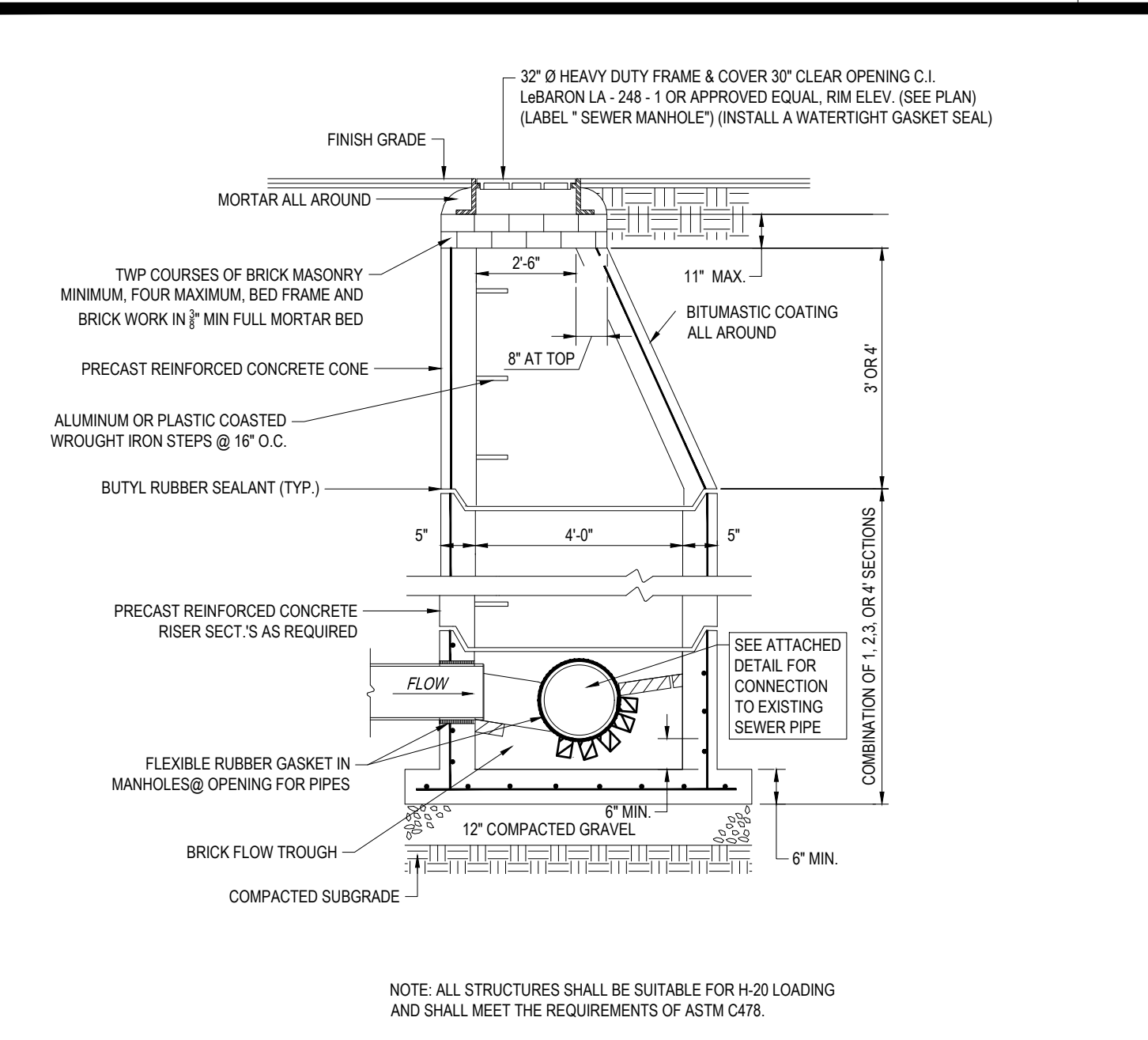
PRECAST CONCRETE STORM DRAIN MANHOLE

N.T.S.



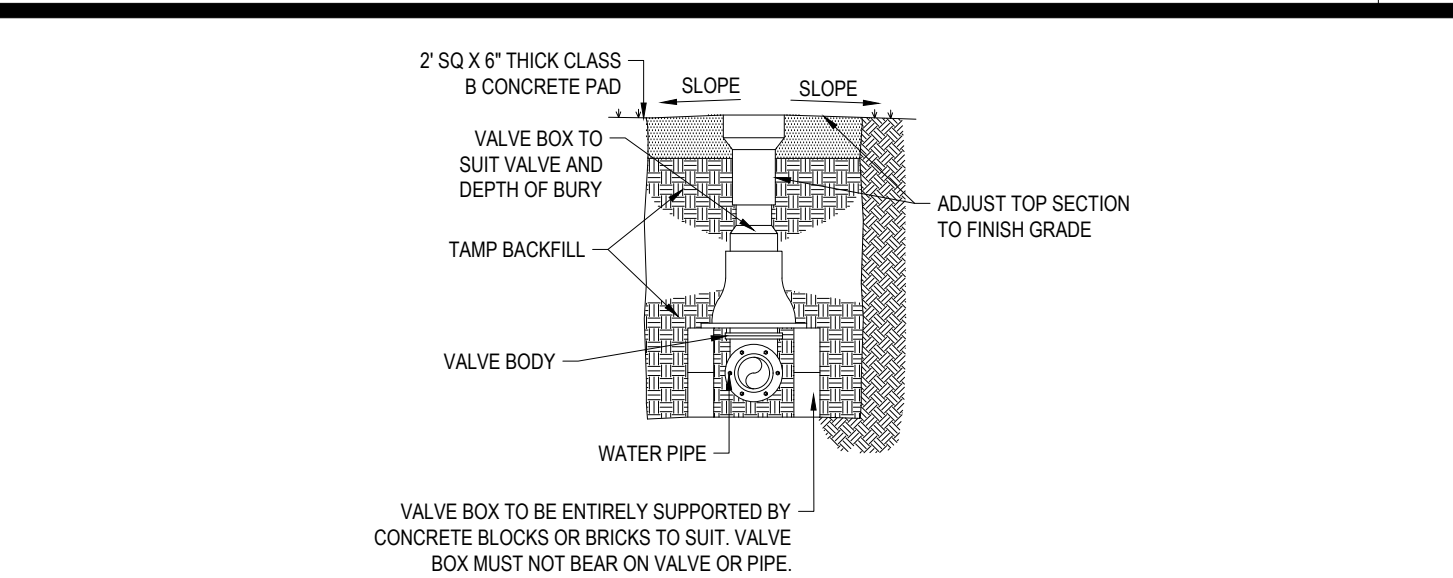
STANDARD SEWER CONNECTION

N.T.S.



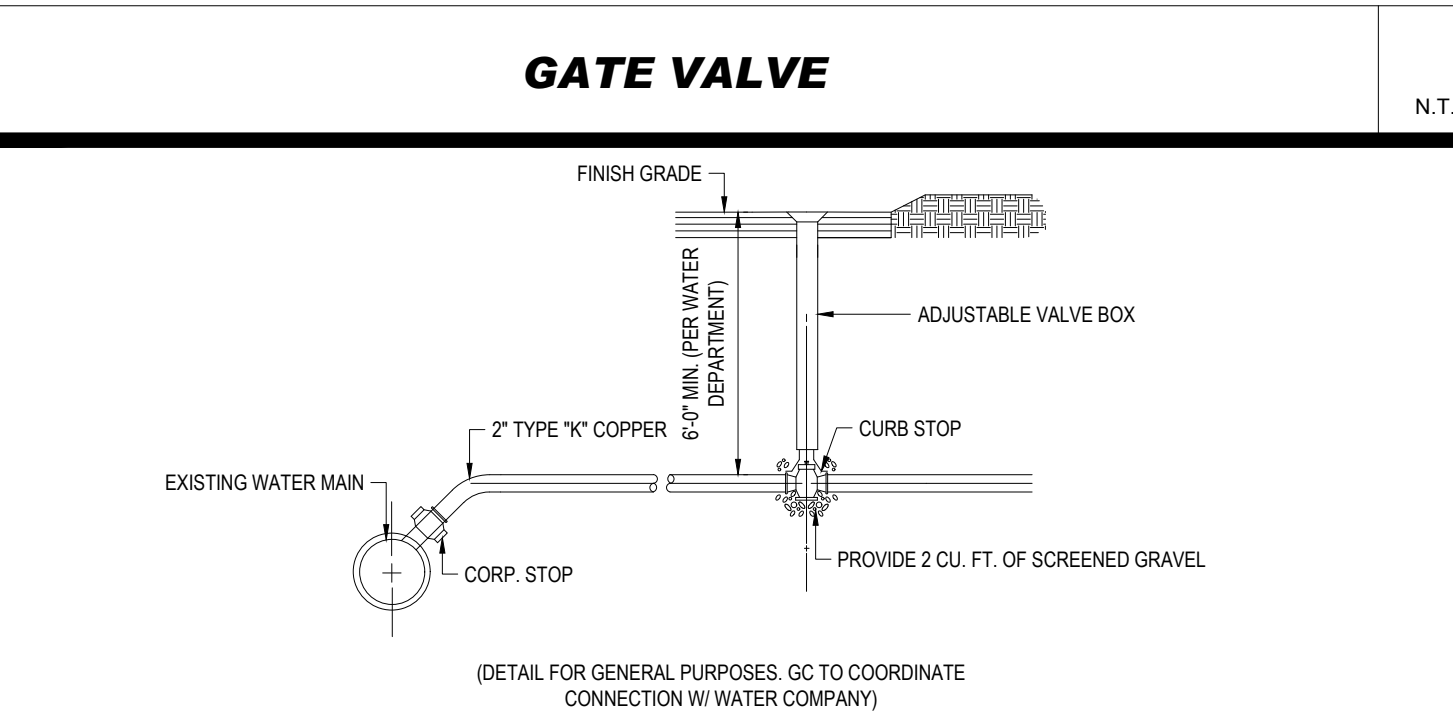
TYPICAL PRECAST CONCRETE SANITARY MANHOLE

N.T.S.



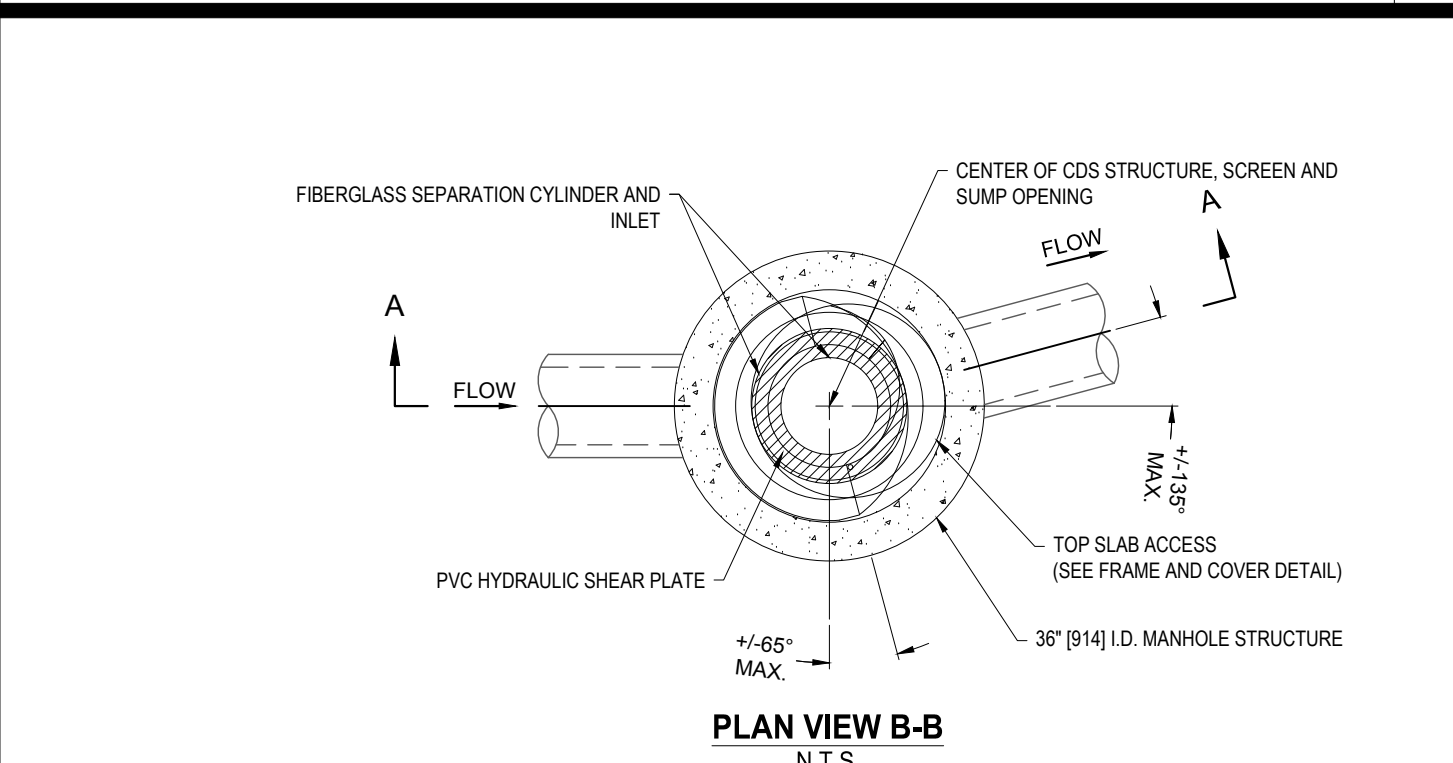
GATE VALVE

N.T.S.



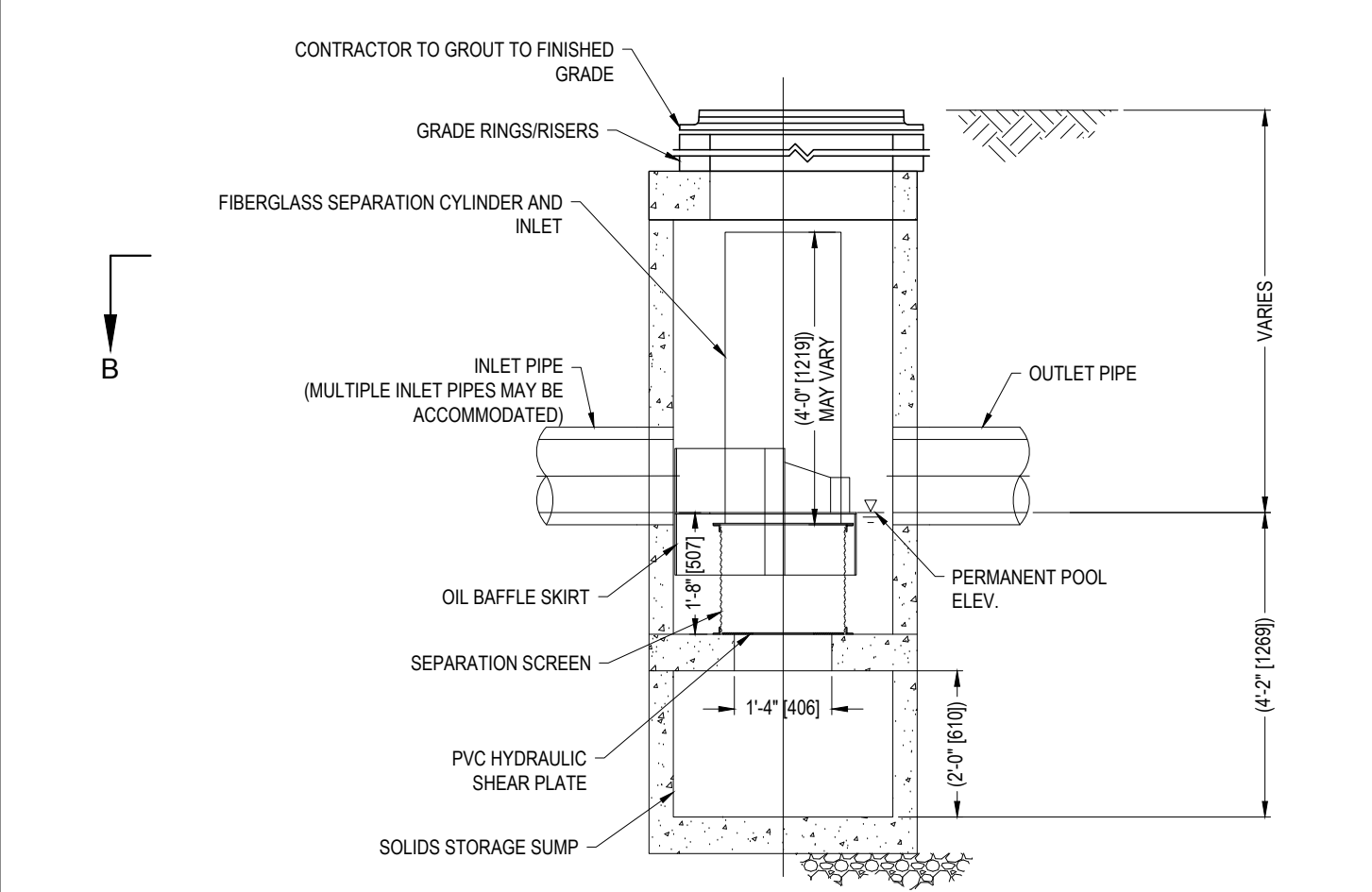
WATER SERVICE CONSTRUCTION

N.T.S.



PLAN VIEW B-B

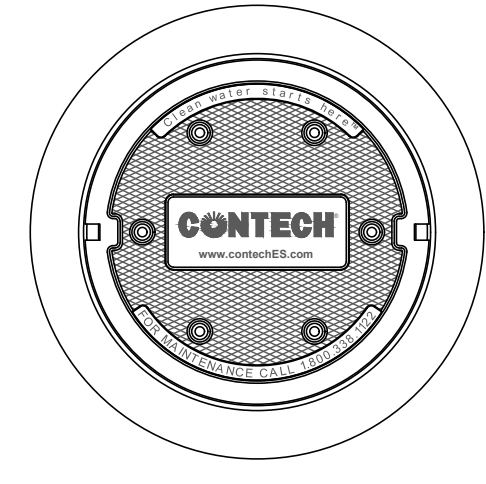
N.T.S.



ELEVATION A-A

N.T.S.

CDS1515-3-C DESIGN NOTES
 CDS1515-3-C RATED TREATMENT CAPACITY IS 1.0 CFS, OR PER LOCAL REGULATIONS.
 THE STANDARD CDS1515-3-C CONFIGURATION IS SHOWN.



FRAME AND COVER

N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

| PIPE DATA | I.E. | MATERIAL | DIAMETER |
|--------------|------|----------|----------|
| INLET PIPE 1 | * | * | * |
| INLET PIPE 2 | * | * | * |
| OUTLET PIPE | * | * | * |

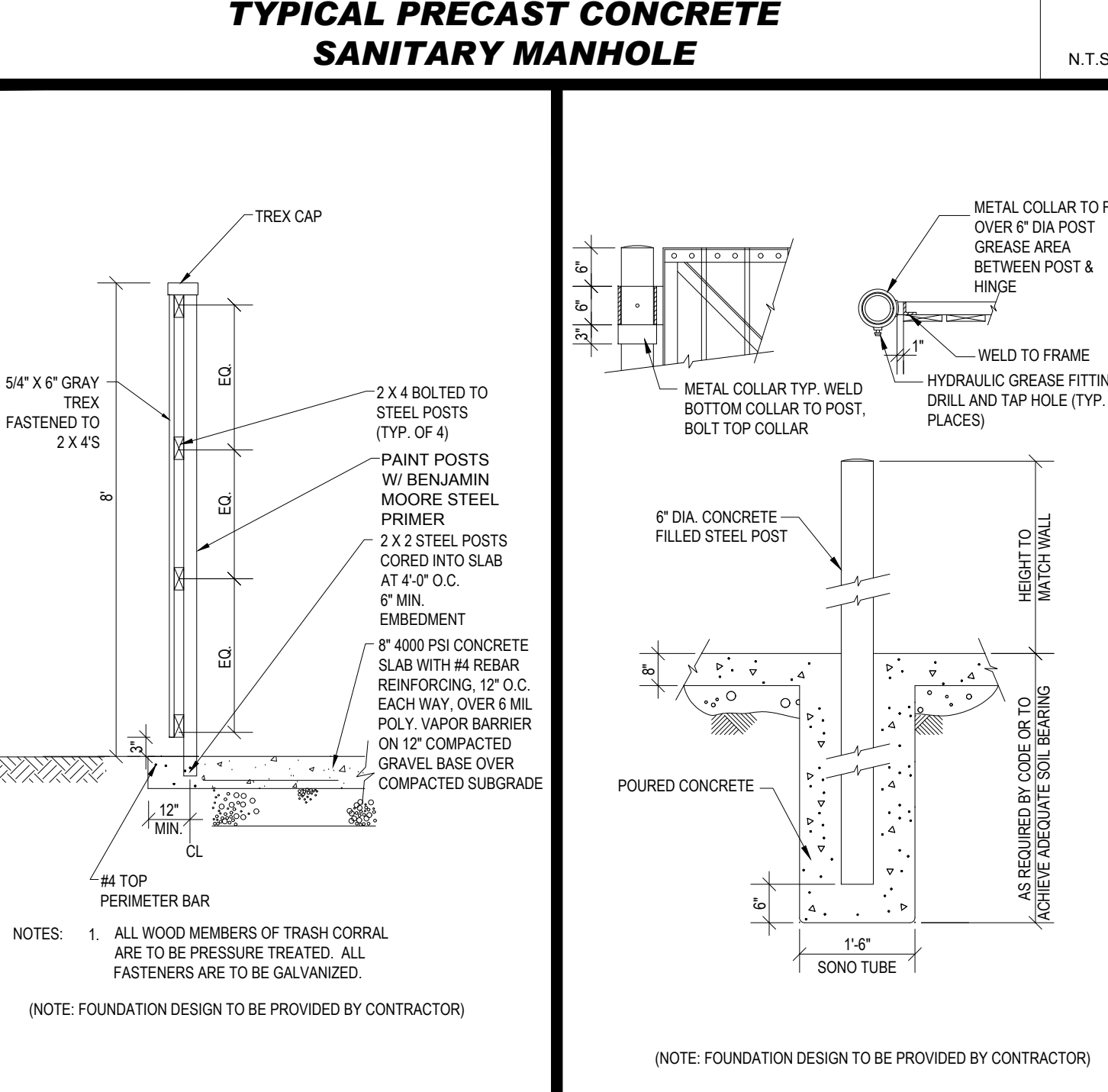
| ANTI-FLOTATION BALLAST | WIDTH | HEIGHT |
|------------------------|-------|--------|
| | | |

NOTES/SPECIAL REQUIREMENTS:
 * PER ENGINEER OF RECORD

- GENERAL NOTES
 1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.conteches.com
 3. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 4. STRUCTURE SHALL MEET ASHTO H20 LOAD RATING. ASSUMING EARTH COVER OF 0'-2' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
 5. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
 6. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND ASHTO LOAD FACTOR DESIGN METHOD.
- INSTALLATION NOTES
 A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
 C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
 D. CONTRACTOR TO PROVIDE, INSTALL AND GROUT INLET AND OUTLET PIPE (S) . MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
 E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

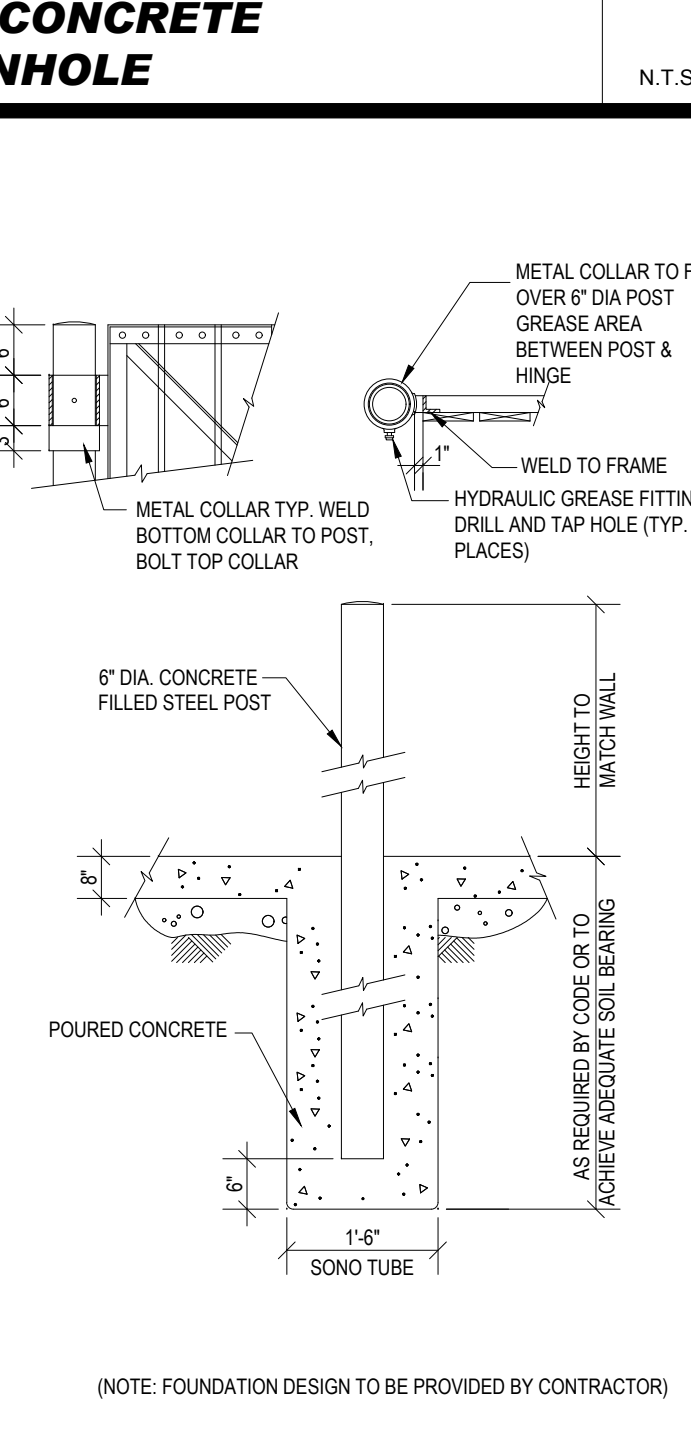
CDS1515-3-C ONLINE CDS STANDARD DETAIL

N.T.S.



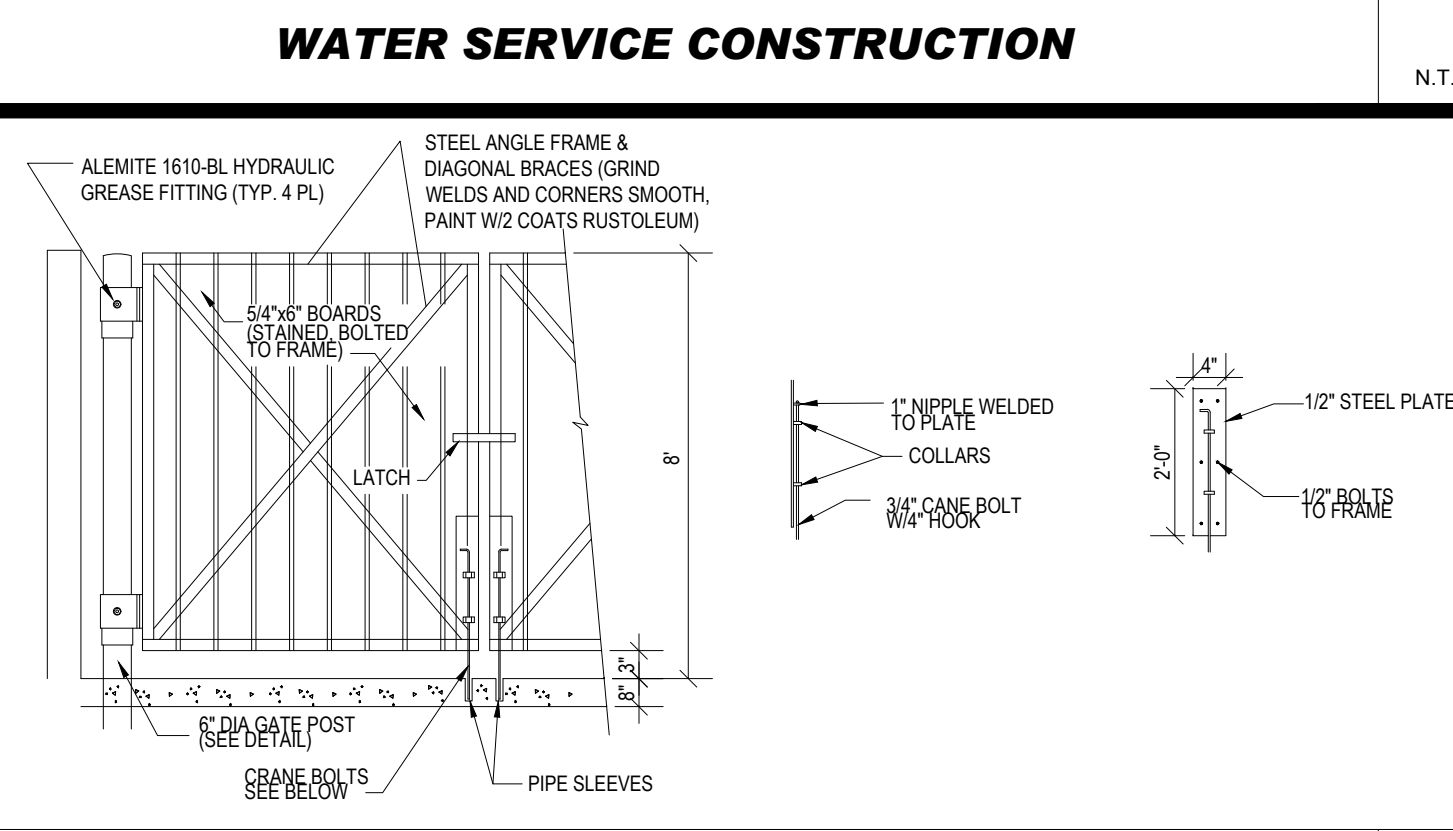
TRASH ENCLOSURE WALL SECTION

N.T.S.



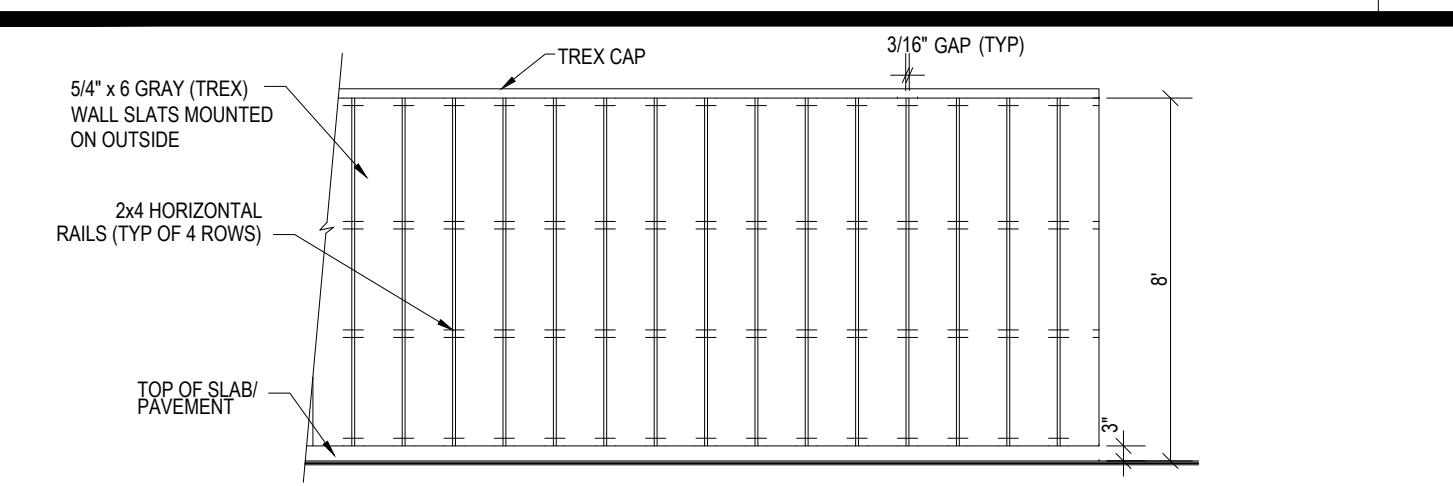
TRASH ENCLOSURE GATE POST DETAILS

N.T.S.



TRASH CORRAL TYPICAL ELEVATION

N.T.S.



TRASH ENCLOSURE GATE & MOUNTING

N.T.S.



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

| | |
|--------------------|---------------------|
| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: | W222000 |
| CAD I.D. #: | W222000-SPPD-5a.dwg |

| | |
|-----------------|------------------|
| STREET ADDRESS | |
| 413 MAIN STREET | |
| CITY | STATE |
| READING | MA |
| COUNTY | |
| MIDDLESEX | |
| SITE I.D. | PLAN DESCRIPTION |
| 20-0015 | DETAIL SHEET |

| | | |
|--------------|--------------|-----|
| STATUS | DATE | BY |
| DRAWN BY: | 04/28/2023 | CSE |
| PLAN CHECKED | - | - |
| AS-BUILT | - | - |
| SHEET NO. | C-903 | |
| OF 15 | | |

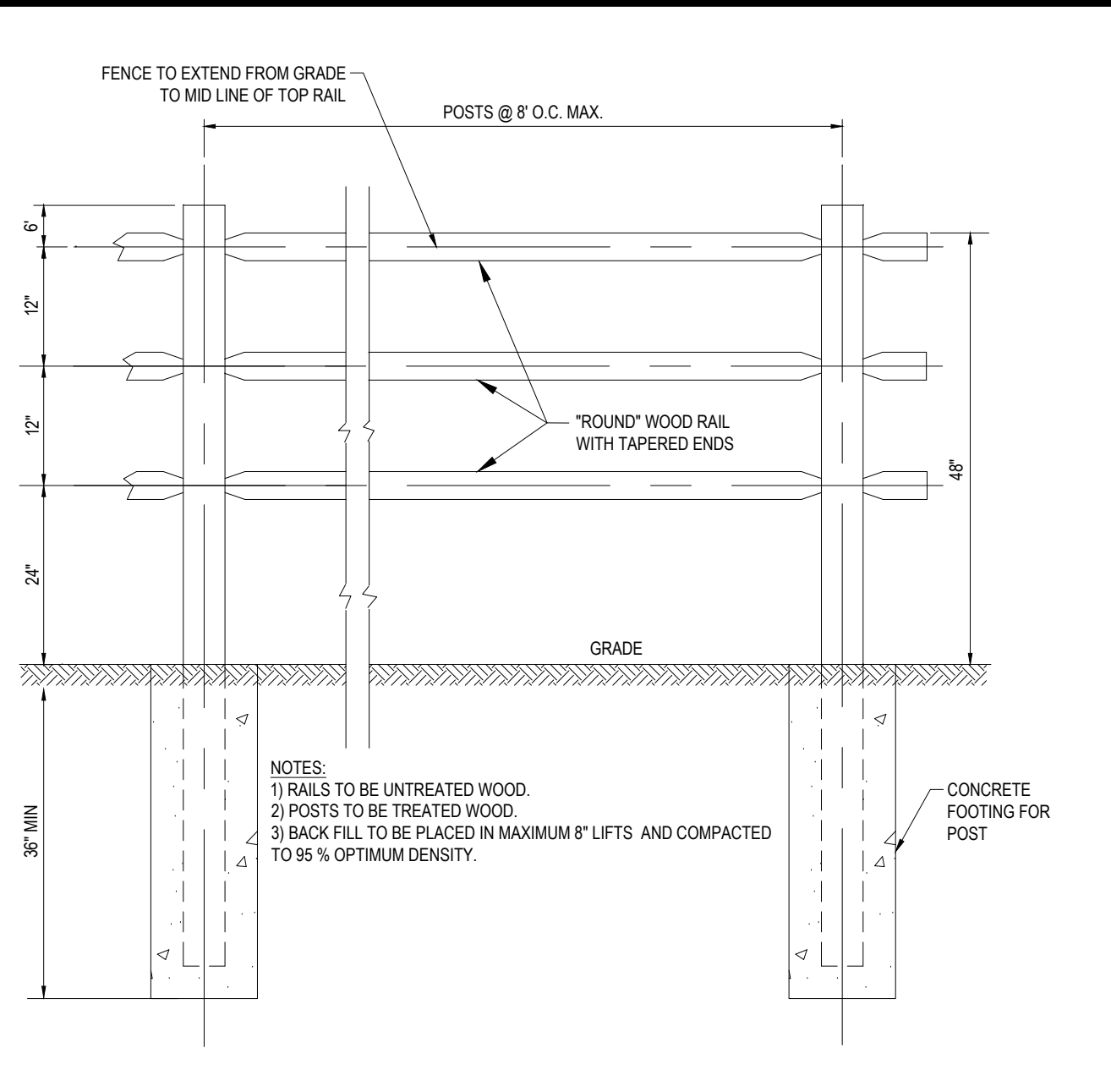


McDonald's
 BOSTON REGION
 110 N CARPENTER ST
 CHICAGO, IL 60687

| | |
|----------------|-----------|
| OFFICE ADDRESS | DATE |
| APPROVED | SIGNATURE |
| APPROVED | APPROVED |



- NOTES:
- SIGN SHALL BE MANUFACTURED BY PERSONA.
 - CONTRACTOR SHALL COORDINATE FINAL GRAPHIC TEXT OPTION WITH ACM AND OWNER/OPERATOR.
 - FOUNDATION DESIGN TO BE PROVIDED BY CONTRACTOR. CONTRACTOR SHALL OBTAIN FINAL SPECIFICATIONS FROM SIGN VENDOR.



- NOTES:
- RAILS TO BE UNTREATED WOOD.
 - POSTS TO BE TREATED WOOD.
 - BACK FILL TO BE PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO 95% OPTIMUM DENSITY.

MCD 36" NEXT GEN DIRECTIONAL SIGN

N.T.S.

4' HIGH 3-RAIL TIMBER FENCE

N.T.S.

| REV | DATE | DESCRIPTION | BY |
|-----|------------|----------------------------------|-----|
| 1 | 06/12/2023 | REV. PER ZBA & ABITTERS FEEDBACK | CSE |
| 2 | 08/09/2023 | REV. FOR CPDC SUBMITTAL | CSE |
| 3 | 10/03/2023 | REV. FOR CPDC SUBMITTAL | CSE |
| 4 | 10/18/2023 | REV. FOR CPDC COMMENTS | CSE |
| 5 | 12/14/2023 | REV. FOR TOWN COMMENTS | CSE |



McDonald's

AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION. THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF MCDONALD'S CORPORATION

OFFICE ADDRESS: BOSTON REGION, 110 N CARPENTER ST, CHICAGO, IL 60607

BOHLER

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

| | |
|---------------------------------|------|
| COMPLIANCE CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| CONSTRUCTION CHECK | DATE |
| PROJECT No.: W222000 | |
| CAD I.D. #: W222000-SPPD-5a.dwg | |

| | |
|-----------------------------------|----------------------------------|
| STREET ADDRESS 413 MAIN STREET | |
| CITY READING | STATE MA |
| COUNTY MIDDLESEX | |
| SITE I.D. 20-0015 | PLAN DESCRIPTION DETAIL SHEET |

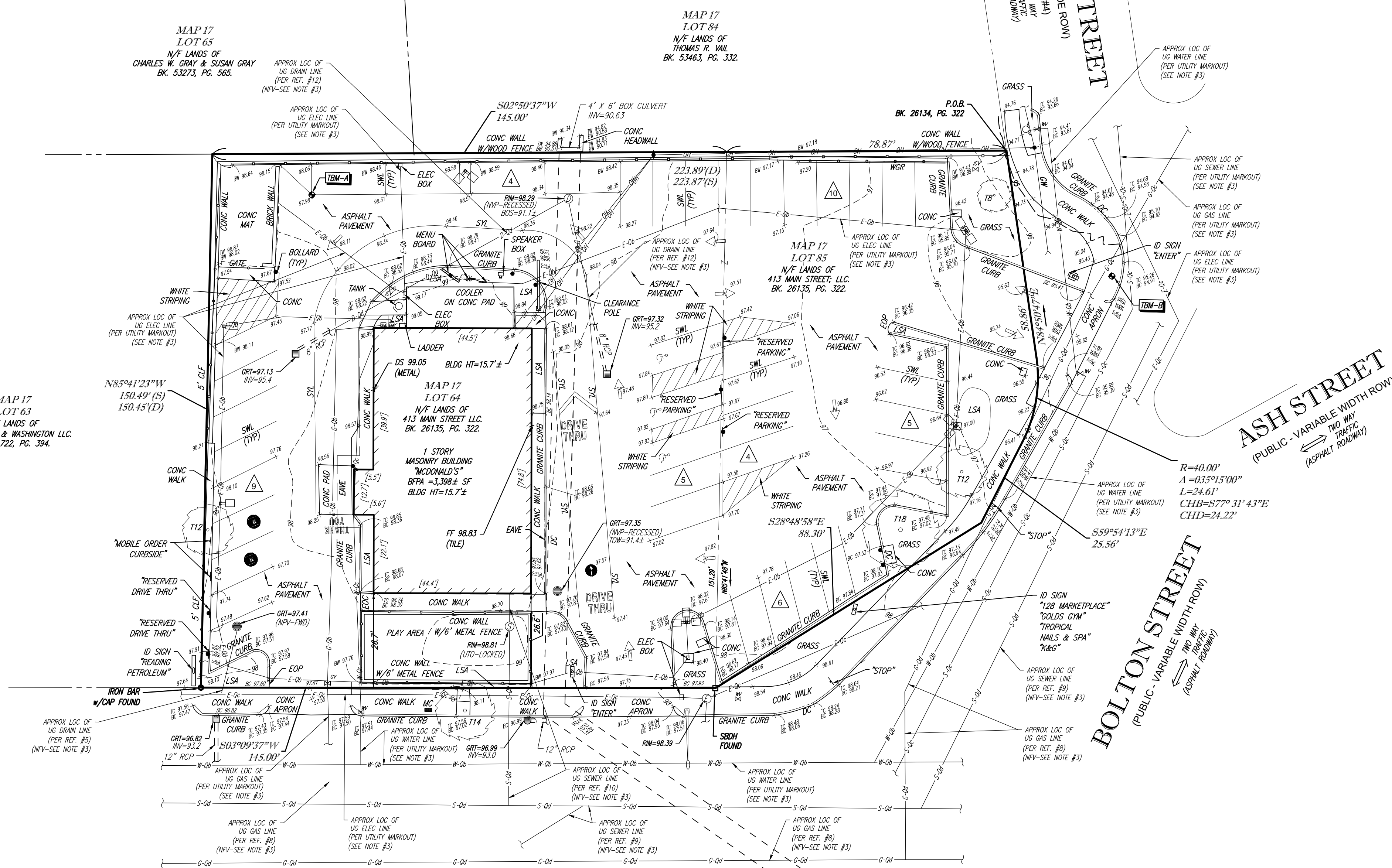
| PLAN APPROVALS | | |
|----------------|------|---------------------------|
| SIGNATURE | DATE | APPROVED MCDONALD'S AGENT |
| | | |

| | | |
|--------------|------------|--------------|
| STATUS | DATE | BY |
| DRAWN BY: | 04/28/2023 | CSE |
| PLAN CHECKED | - | - |
| AS-BUILT | | |
| SHEET NO. | | C-904 |
| | | OF 15 |

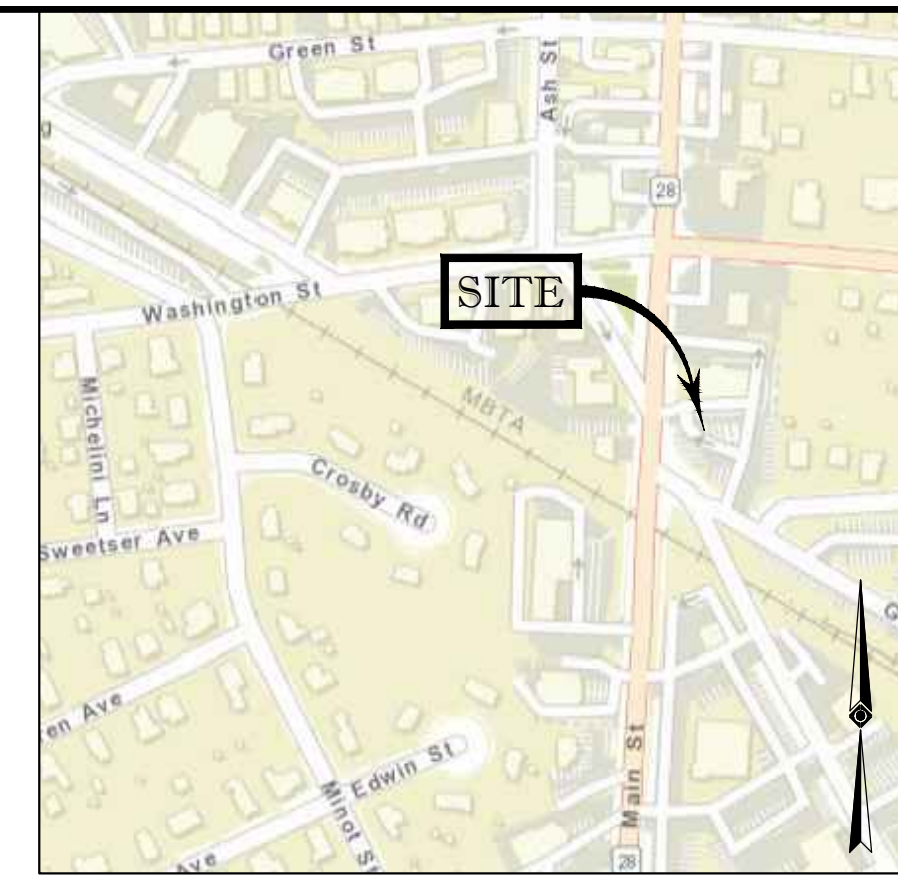
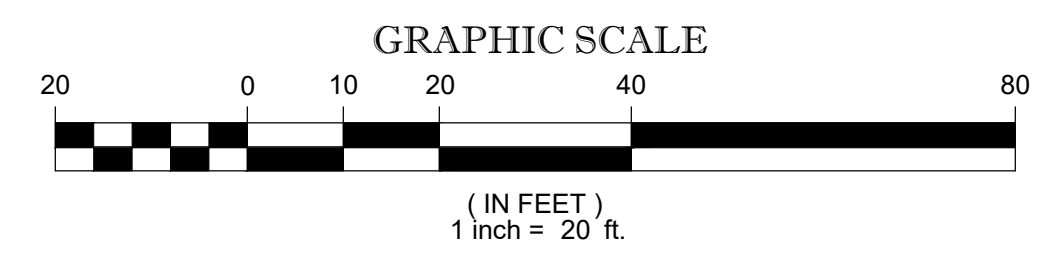
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LEGEND

| | |
|-------------|--|
| 124 | EXISTING CONTOUR |
| 125 | EXISTING SPOT ELEVATION |
| + 125.45 | EXIST. TOP OF CURB ELEVATION |
| + BC 122.85 | EXIST. BOTTOM OF CURB ELEVATION |
| + TW 123.45 | EXIST. TOP OF WALL ELEVATION |
| + BW 122.85 | EXIST. BOTTOM OF WALL ELEVATION |
| + FF 123.45 | EXIST. FINISHED FLOOR ELEVATION |
| + DS 123.45 | EXIST. DOOR SILL ELEVATION |
| OH | OVERHEAD WIRES |
| E | APPROX. LOC. UNDERGROUND ELECTRIC LINE |
| G | APPROX. LOC. UNDERGROUND NATURAL GAS LINE |
| W | APPROX. LOC. UNDERGROUND WATER LINE |
| D | APPROX. LOC. UNDERGROUND DRAINAGE LINE |
| S | APPROX. LOC. UNDERGROUND SANITARY / SEWER LINE |
| --- | DEPRESSED CURB |
| HY | HYDRANT |
| WV | WATER VALVE |
| GV | GAS VALVE |
| GM | GAS METER |
| EM | ELECTRIC METER |
| EMH | ELECTRIC MANHOLE |
| DMH | DRAINAGE/STORM MANHOLE |
| SMH | SANITARY/SEWER MANHOLE |
| CB | CATCH BASINS |
| UP | UTILITY POLE |
| GW | GUY WIRE |
| SL | STREET LIGHT |
| PH | PAINTED HANDICAPPED |
| PA | PAINTED ARROWS |
| MC | METAL COVERS |
| S | SIGN |
| B | BOLLARD |
| CB | CLEARANCE BAR |
| MB | MENU BOARD |
| SB | SPEAKER BOX |
| AL | AREA LIGHT |
| DT | DECIDUOUS TREE & TRUNK SIZE |
| PC | PARKING SPACE COUNT |
| CLF | CHAIN LINK FENCE |
| DC | DEPRESSED CURB |
| EOP | EDGE OF PAVEMENT |
| LSA | LANDSCAPED AREA |
| MC | METAL COVER |
| (TYP) | TYPICAL |
| SWL | SOLID WHITE LINE |
| SYL | SOLID YELLOW LINE |
| HT | HEIGHT |
| BLDG | BUILDING |
| BTPA | BUILDING FOOTPRINT AREA |
| NVP | NO VISIBLE PIPE |
| UO | UNABLE TO OPEN |
| WFO | FILLED W/DIRT |
| TOW | TOP OF WATER |
| MON | MONUMENT |
| DHF | DRILL HOLE FOUND |
| FWD | FILLED W/DEBRIS |
| SDH | STONE BOUND W/DRILL HOLE |
| INV | INVERT ELEVATION |
| GRT | GRATE ELEVATION |
| RCP | REINFORCED CONCRETE PIPE |
| CB | STONE BOUND DRILL HOLE |
| EF | EVIDENCE FOUND |
| U | UNKNOWN TERMINUS |
| -D- | SUBSURFACE UTILITY QUALITY LEVEL C |
| -D- | SUBSURFACE UTILITY QUALITY LEVEL D |
| -D- | SUBSURFACE UTILITY QUALITY LEVEL B |
| BS | BOTTOM OF STRUCTURE |
| (S) | SURVEY DIMENSION |
| (D) | DEED DIMENSION |



MAIN STREET
(AKA ROUTE 28)
(PUBLIC - 66' WIDE ROW)
(PER REF. #3)
TWO WAY TRAFFIC (ASPHALT ROADWAY)



- NOTES:**
- PROPERTY KNOWN AS LOT 64 & 85 AS SHOWN ON THE TOWN OF READING, MIDDLESEX COUNTY, COMMONWEALTH OF MASSACHUSETTS, MAP No. 17.
 - LOT 64 AREA = 21,873 SQUARE FEET OR 0.502 ACRES
LOT 85 AREA = 10,556 SQUARE FEET OR 0.241 ACRES
TOTAL AREA = 32,378 SQUARE FEET OR 0.743 ACRES
 - THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE BASED UPON MARKOUT PROVIDED BY CONTROL POINT ASSOCIATES, INC. USING GROUND PENETRATING RADAR AND ELECTROMAGNETIC DETECTION EQUIPMENT. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS. ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF SURVEY, BEFORE ANY EXCAVATION IS TO BEING, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE, AND TYPE BY THE PROPER UTILITY COMPANIES.
- THE SOURCE OF UNDERGROUND UTILITIES ARE SHOWN UTILIZING A QUALITY LEVEL SYSTEM:
- QUALITY LEVEL D - UTILITIES SHOWN BASED UPON REFERENCE MAPPING OR ORAL HISTORY. NOT FIELD VERIFIED.
 - QUALITY LEVEL C - LOCATION OF UTILITY SURFACE FEATURES SUPPLEMENTS REFERENCE MAPPING. INCLUDES MARKOUT BY OTHERS.
 - QUALITY LEVEL B - UTILITY LOCATION DATA IS COLLECTED THROUGH GEOPHYSICAL SENSING TECHNOLOGY TO SUPPLEMENT SURFACE FEATURES AND OR REFERENCE MAPPING. INCLUDES MARKOUT BY CONTROL POINT ASSOCIATES, INC.
 - QUALITY LEVEL A - HORIZONTAL AND VERTICAL LOCATION OF UTILITIES ARE OBTAINED USING VACUUM OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).
- ALL FOUR TYPES MAY NOT BE PRESENT ON THIS SURVEY
- THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
 - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
 - BY GRAPHIC PLOTTING ONLY PROPERTY IS PARTIALLY LOCATED IN FLOOD HAZARD ZONE X - UNSHADED (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), PER REF. #2
 - ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).
- TEMPORARY BENCH MARKS SET:
- TBM-A: MAG NAIL SET IN ASPHALT PAVEMENT. ELEVATION = 98.29'
 - TBM-B: MAG NAIL SET IN CONCRETE SIDEWALK ELEVATION = 95.37'
- PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.
- THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
 - THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD.

- REFERENCES:**
- THE TAX ASSESSOR'S MAP OF THE TOWN OF READING, MIDDLESEX COUNTY, MAP 17.
 - MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, MIDDLESEX COUNTY, MASSACHUSETTS (ALL JURISDICTIONS), PANEL 313 OF 656", MAP NUMBER 25017C0313E, MAP EFFECTIVE - JUNE 4, 2010.
 - MAP ENTITLED "GENERAL & LOCATION PLAN", PREPARED BY GOLDEN LAND SURVEY, INC., REVISED DATED MAY 23, 1995.
 - MAP ENTITLED "BOLTON STREET READING, MASSACHUSETTS," PREPARED BY JAMES T. PUTNAM, DATED JANUARY 17, 1955, RECORDED IN MIDDLESEX REGISTRY OF DEEDS AS PLAN NUMBER 861 OF 1955.
 - MAP ENTITLED "PLAN OF LAND IN READING, MASSACHUSETTS, PREPARED FOR McDONALD'S CORPORATION," PREPARED BY GOLDEN LAND SURVEYING, INC., DATED OCTOBER 13, 1994.
 - MAP ENTITLED "SITE GRADING & DRAINAGE PLAN," PREPARED BY RALPH A. CATALDO ENGINEERING, DATED APRIL 25, 1995.
 - MAP ENTITLED "PLAN OF LAND READING, MASSACHUSETTS," PREPARED BY G. BRACKETT & CO., INC., DATED OCTOBER 21, 1963, RECORDED IN MIDDLESEX REGISTRY OF DEEDS AS PLAN NUMBER 1773 OF 1963.
 - GAS MAPPING PROVIDED BY NATIONAL GRID.
 - SEWER MAPPING PROVIDED BY GIS UTILITIES.
 - SEWER TIES MAPPING PROVIDED BY DEPARTMENT OF PUBLIC WORKS, SEWER DIVISION.
 - DRAIN MAPPING PROVIDED BY GIS UTILITIES.
 - MAP ENTITLED "McDONALD'S SYSTEM INCORPORATED, READING, MASSACHUSETTS, SITE PLAN SHOWING NEW CULVERT," PREPARED BY RAY FITZMAURICE - CONSULTING ENGINEER, REVISED DATED JULY 16, 1963.
 - MAP ENTITLED "413 MAIN STREET, READING," PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED OCTOBER 2, 2022.

| No. | DESCRIPTION OF REVISION | FIELD CREW | DRAWN | APPROVED | DATE |
|-----|---|------------|--------|----------|------------|
| 2 | REVISED PER ADDITIONAL INVERT INFORMATION | B.S.B. | R.J.K. | G.L.H. | 9-15-2023 |
| 1 | REVISED PER CULVERT LOCATIONS | B.S.B. | R.J.K. | G.L.H. | 11-30-2022 |

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL



BOUNDARY, TOPOGRAPHIC & UTILITY SURVEY
McDonald's USA, LLC
413 MAIN STREET
LOT 64 & 85, MAP 17
TOWN OF READING, MIDDLESEX COUNTY
COMMONWEALTH OF MASSACHUSETTS
L/C# 020-015

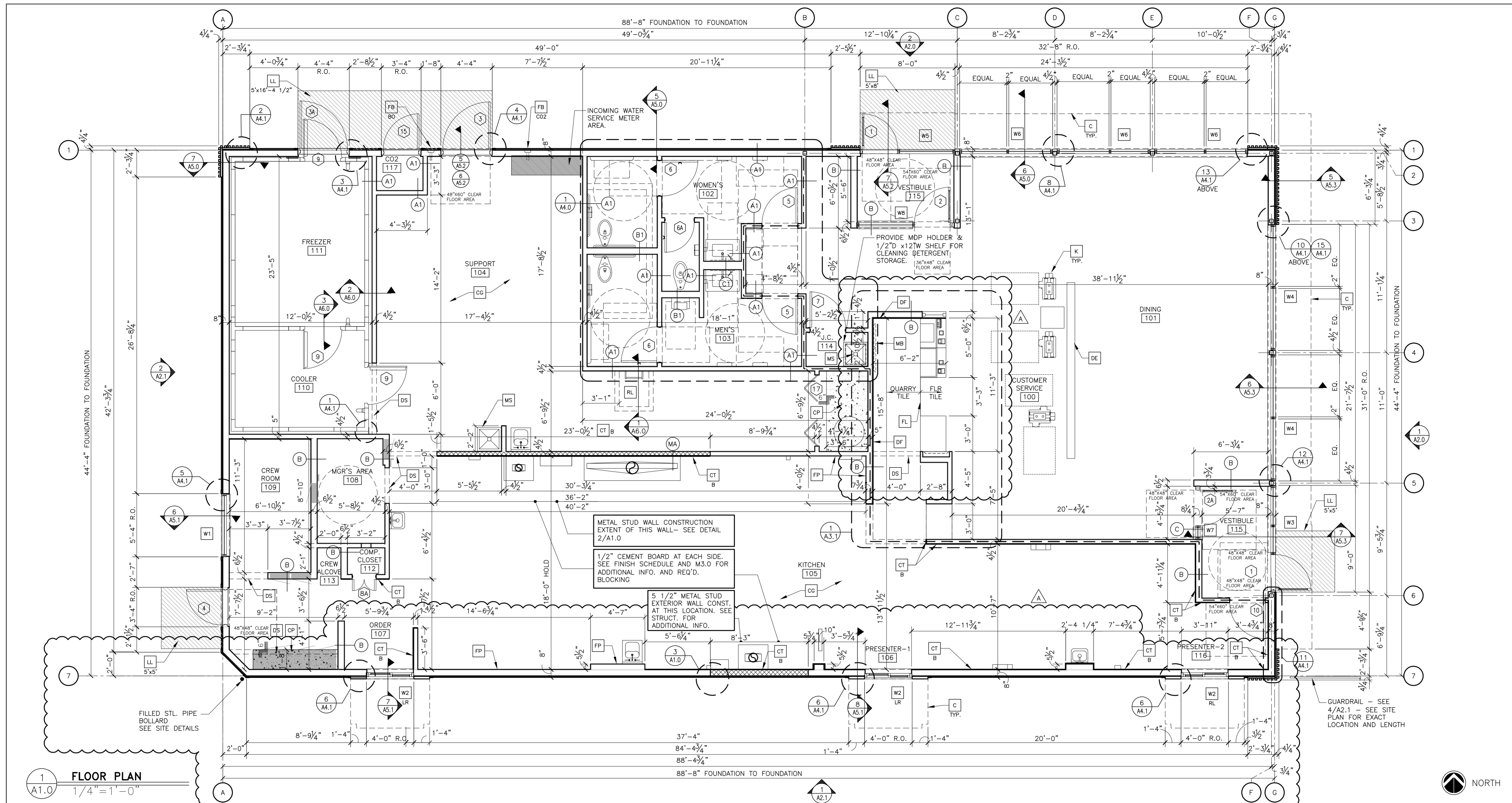
CONTROL POINT ASSOCIATES, INC.
ALBANY, NY 518-217-5010
CHAFFONT, PA 215-712-9800
HAUPPAUGE, NY 631-882-2645
MANHATTAN, NY 646-780-0111
SOUTH BROOKFIELD, MA 01772
508.948.3000 - 508.948.3003 FAX
WARREN, NJ 908-668-0999

GERRY L. HOLDRIGHT, PLS
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

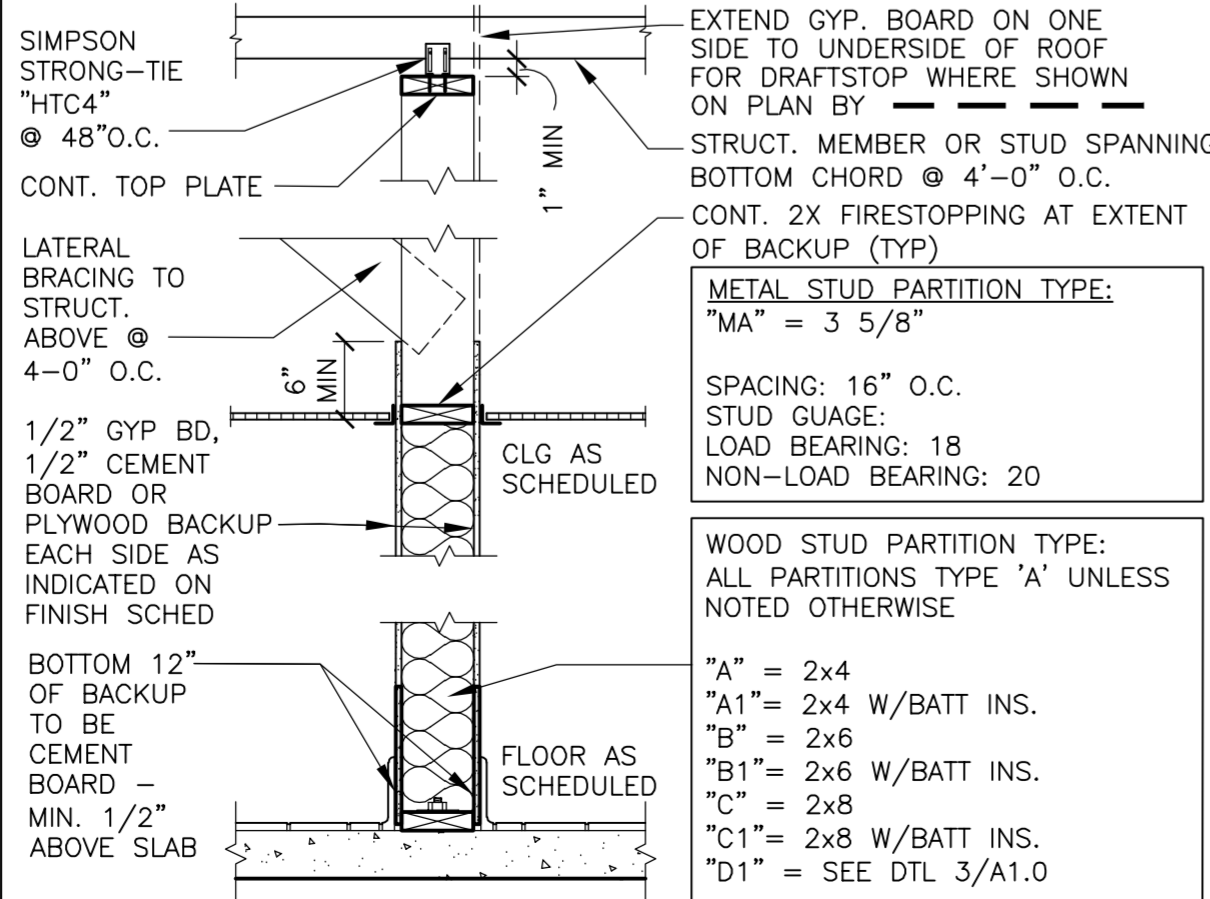
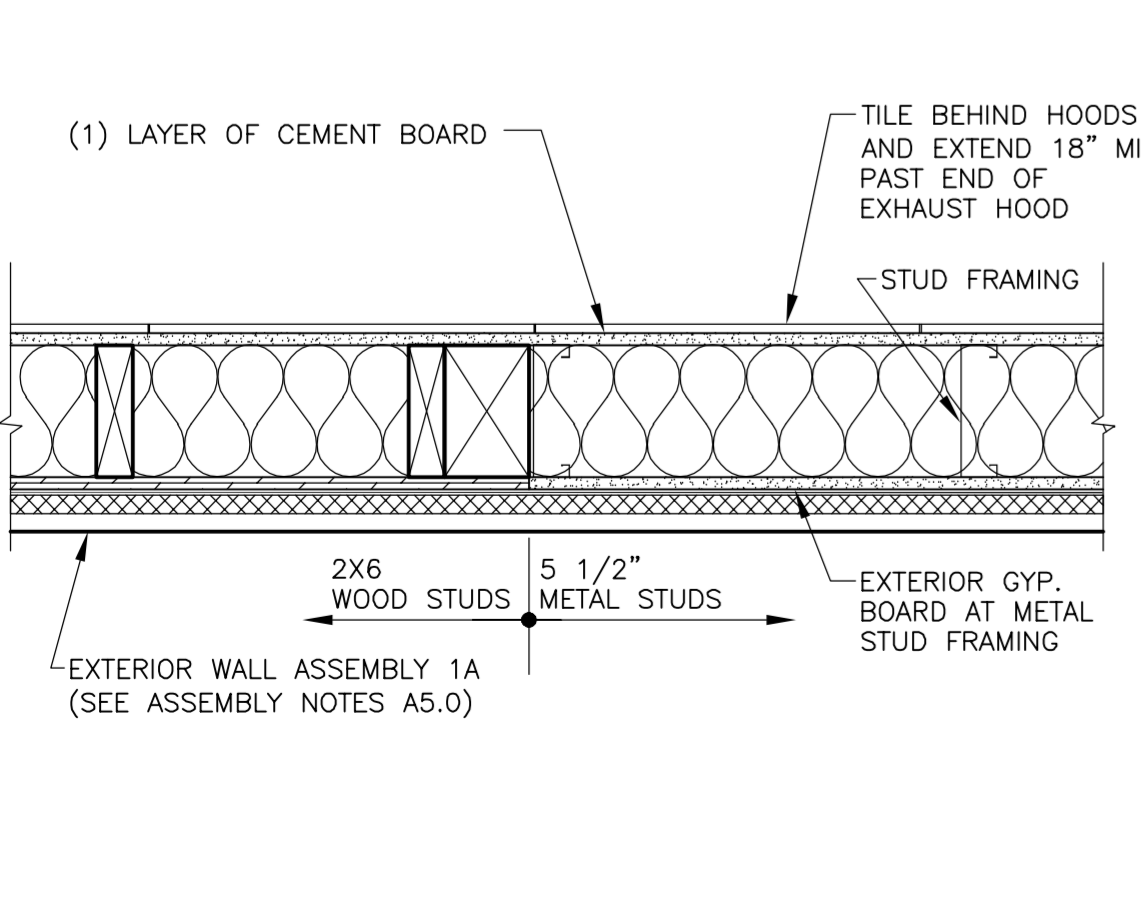
| | | | | | |
|-----------|-----------|------------|--------|--------------|-----------|
| REVISION: | APPROVED: | DATE: | SCALE: | FILE NO.: | DWG. NO.: |
| R.J.K. | G.L.H. | 10-10-2022 | 1"=20' | 03-180087-00 | 1 OF 1 |

CONTROL POINT ASSOCIATES, INC. ALL RIGHTS RESERVED. THIS IS A PRELIMINARY DRAFT. THE ORIGINAL PROJECT OR THE PURPOSE OF THIS SURVEY IS TO BE DETERMINED BY THE WRITTEN PERMISSION OF CONTROL POINT ASSOCIATES, INC. IS PROHIBITED.

THE COMMONWEALTH OF MASSACHUSETTS REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.



1 FLOOR PLAN
1/4" = 1'-0"



- KEY NOTES**
- C** ALUMINUM CANOPY SYSTEM ABOVE - SEE 4/A5.0 FOR NOTES - SEE ROOF PLAN FOR DIMENSIONS, SEE ELEVATION FOR COLORS AND FASCIA LOCATIONS
 - CG** G.C. TO PROVIDE 4"x4"x5'-0" HIGH STAINLESS STEEL CORNER GUARDS AT ALL EXPOSED LOCATIONS IN KITCHEN/SUPPORT AREA. CORNER GUARDS TO START AT FINISH FLOOR. ATTACH WITH WOOD SCREWS INTO WOOD BLOCKING BULLNOSE COVE BASE WHERE TILE MEETS STAINLESS STEEL CORNER - SEE DETAIL 4/A6.0
 - CP** CONCRETE EQMT PAD - SEE STRUCTURAL & DETAIL 5/A6.0
 - CT** WALL TILE: CROSSVILLE - COLOR BY NUMBERS, COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: RUNNING BOND, GROUT: MAPEI O2 PEWTER - JOINT TO BE 1/8" MAX. USE THIS TILE WHEN HIGH LRV IS REQUIRED COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER
 - DE** DECOR ELEMENT - VERIFY SIZE AND PLACEMENT WITH DECOR PLANS
 - DF** DECOR FINISH TO BE ORDERED/INSTALLED BY GC AND MANUFACTURED BY DECOR; REFER TO PORTFOLIO.
 - DS** DROPPED SOFFIT ABOVE - SEE REFLECTED CEILING PLAN
 - FB** CO2 FILL BOX (EQUIPMENT SCHEDULE ITEM 49.00)
 - FB** OPTIONAL BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18) CONFIRM USE WITH McDONALD'S AREA CONSTRUCTION MANAGER

- SYMBOL LEGEND**
- FL** FLOOR LINE - CHANGE IN MATERIAL - SEE DECOR DRAWINGS
 - FP** FIBERGLASS REINFORCED PLASTIC (FRP) - PANOLAM, GRAY SMOOTH, CLASS C .075. REFER TO ROOM FINISH SCHEDULE SHEET A6.1 FOR INSTALLATION LOCATIONS. FOR ORDERING, CONTACT KIMBERLY LAWSON Kimberly.Lawson@panolam.com 1-866-925-4377
 - LL** LEVEL LANDING @ EXT. DOOR W/ MAX. 2% RUNNING/CROSS SLOPE AWAY FROM BUILDING - SIZE OF LANDING
 - K** SELF-ORDER KIOSK - POWER & DATA FROM CEILING, FOR FURNITURE (COORDINATE FINISH LOCATION WITH DECOR)
 - MB** MENU BOARD WITH BEZELS BY OTHERS UNDER SEPARATE PERMIT - SEE ELEC PLANS
 - MS** MOP SINK - SEE DETAIL 8/A6.1 AND PLUMBING DRAWINGS.
 - RL** ROOF ACCESS LADDER W/HATCH ABOVE SEE STRUCTURAL FRAMING PLAN FOR LOCATING DIMENSIONS
 - Wk** EXTERIOR WINDOW ASSEMBLY - SEE A2.0, A2.1 & 4/A5.0 FOR ADDITIONAL NOTES

- GENERAL NOTES**
- EXTERIOR DIMENSIONS ARE TO COLUMN REFERENCE LINES AND EXTERIOR FACE OF FINISH UNLESS OTHERWISE NOTED. INTERIOR DIMENSIONS ARE TO FACE OF INTERIOR WALL BOARD.
 - SEE 4/A5.0 FOR EXTERIOR WALL ASSEMBLY TYPES. SEE 2/A1.0 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITIONS ARE TYPE 'A' UNLESS NOTED OTHERWISE.
 - SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES.
 - SEE SHEET A6.0 FOR DOOR SCHEDULE AND SHEET A6.1 FOR ROOM FINISH SCHEDULES.
 - SEE SITE PLAN FOR SIDEWALKS, RAMPS, ETC.
 - GC TO PROVIDE ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY FRANKIE SZK. CONTACT JOSH BRAVO <JOSHUA.BRAVO@SZKGRAPHICS.COM> PH: 818-812-7605. COORDINATE WITH ACM.
 - MAXIMUM OCCUPANCY SIGN TO BE POSTED PER LOCAL CODE. SIGN FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
 - ALL HANDSINK LOCATIONS SHALL HAVE CEMENT BOARD BACKING 48" IN HEIGHT A.F.F. GC TO COORDINATE ALL REQUIRED BLOCKING FOR WALL HUNG EQUIPMENT, SHELVES, ETC. FOR PROPER INSTALLATION HEIGHTS.
 - KNOX BOX TO BE INSTALLED BY GENERAL CONTRACTOR PER LOCAL CODE AS REQUIRED. MODEL AND LOCATION TO BE COORDINATED WITH FIRE MARSHALL.
 - DASHED LINES @ DOORS, RESTROOMS, & FIXTURES REPRESENT CLEAR FLOOR MANEUVERING CLEARANCES AS REQUIRED BY THE ACCESSIBILITY CODE. CLEARANCES MUST BE MAINTAINED WITHOUT EXCEPTION. IF CONDITIONS PREVENT ANY CLEAR FLOOR SPACE FROM BEING MAINTAINED, CONTACT THE ARCHITECT FOR RESOLUTION.

McDonald's USA, LLC
AECOM TECHNICAL SERVICES ARCHITECTS/ENGINEERS, INC.
1255 Broad Street, Suite 201
Clifton, NJ 07013-3988
973-883-8570 fax 973-883-8501
http://www.aecom.com

2022 STANDARD BUILDING - BB20
4587 - WOOD/WOOD

A1.0 FLOOR PLAN

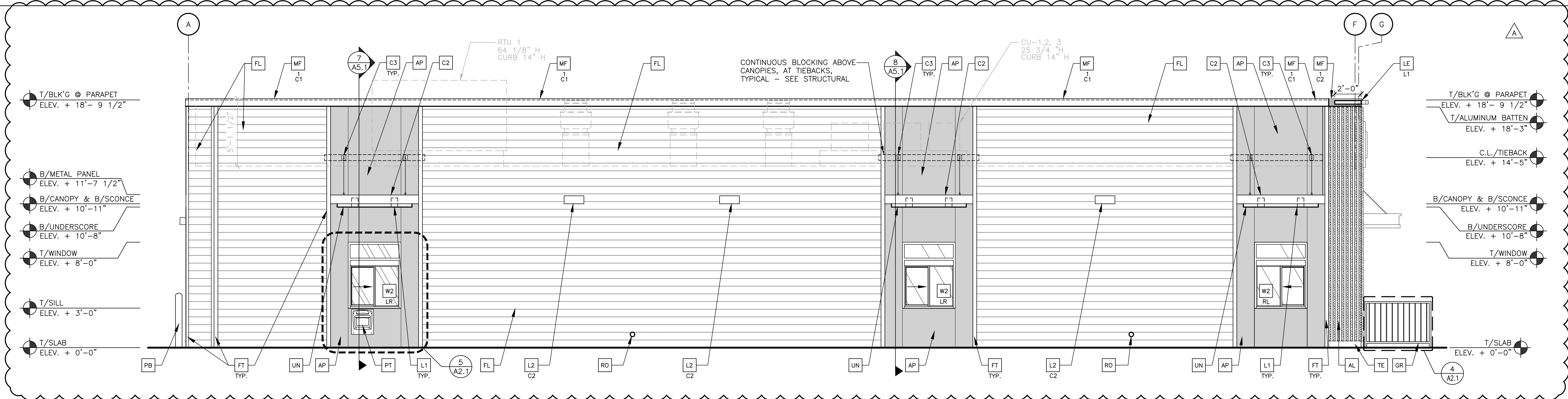
PROJECT No. 60704457 Task: 020-0015

DATE: 8/10/2023

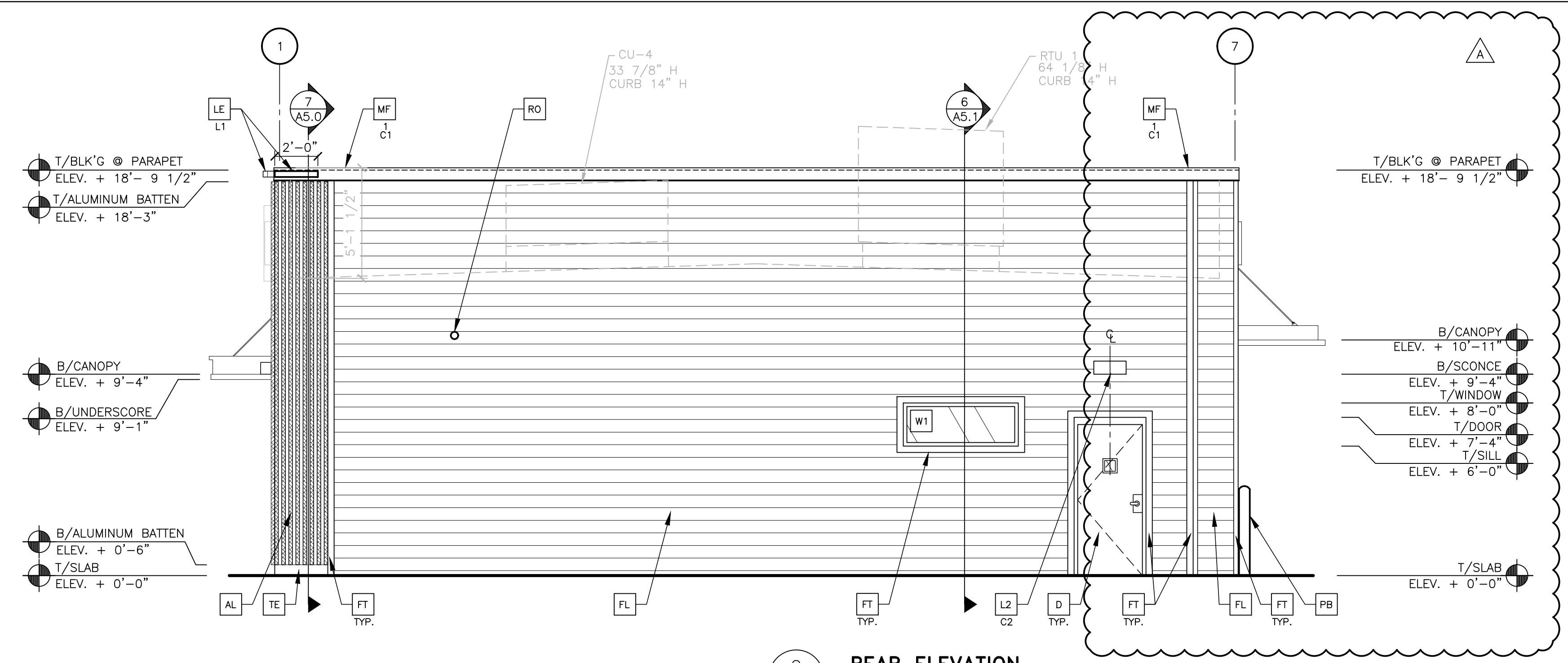
BY: [REDACTED]

REV: [REDACTED]

DESCRIPTION: [REDACTED]

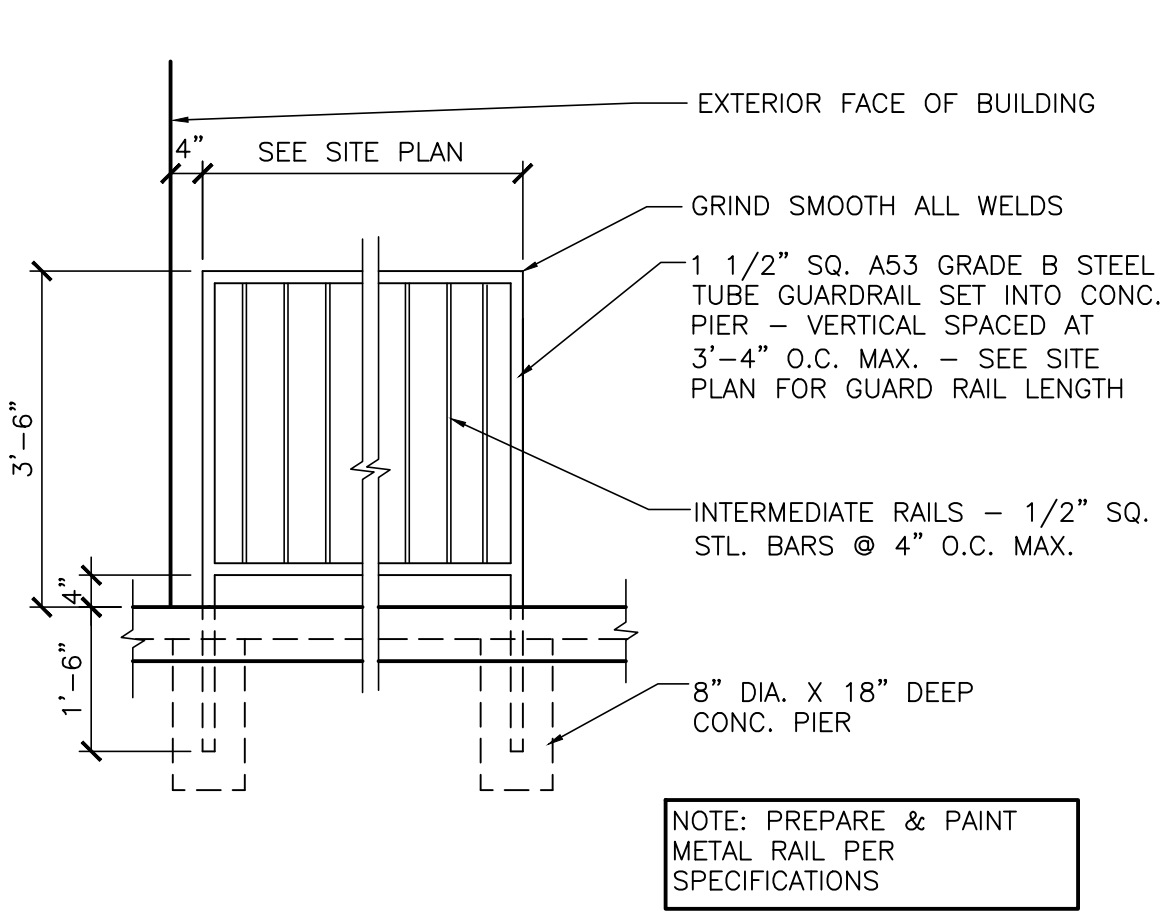


1 DRIVE THRU ELEVATION
1/4" = 1'-0"

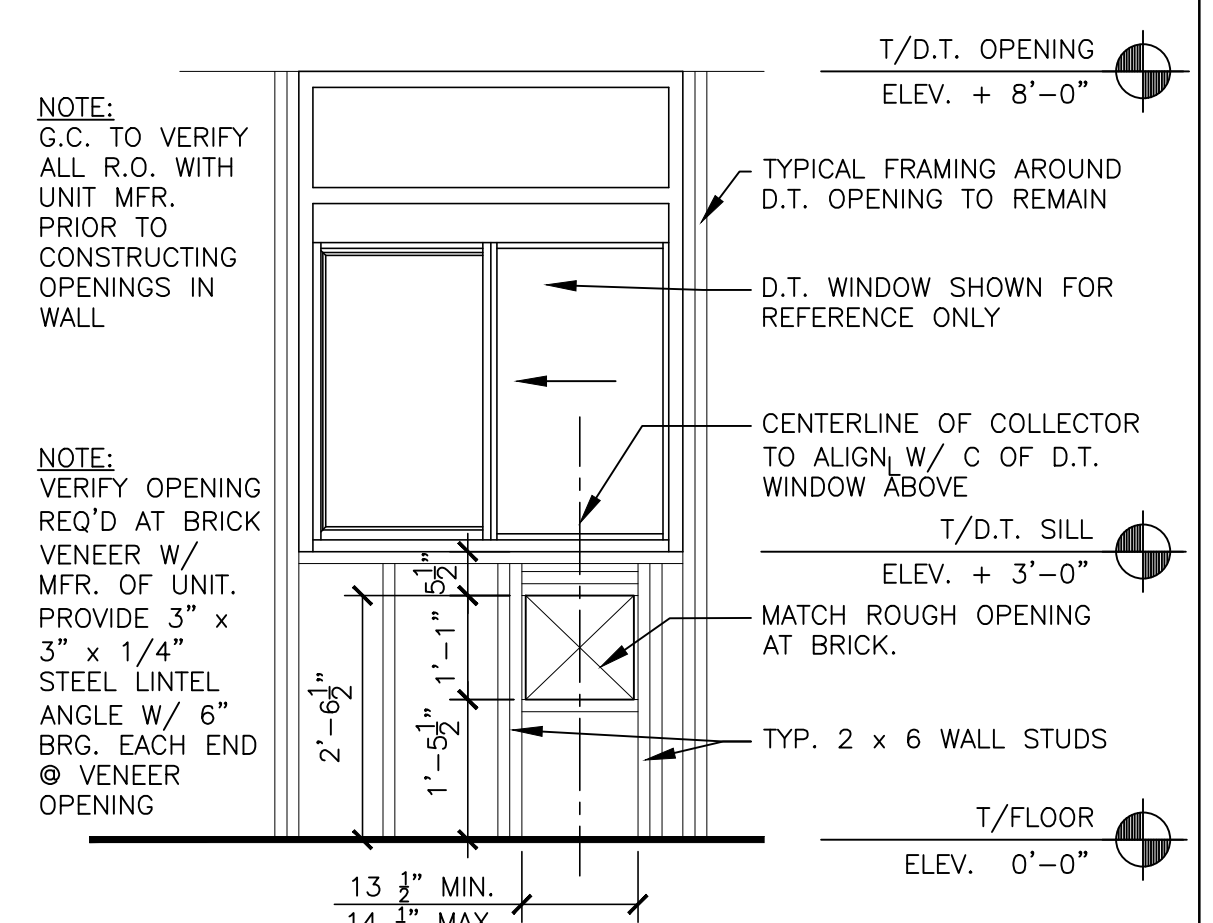


2 REAR ELEVATION
1/4" = 1'-0"

3 NOT USED
A2.1



4 GUARD RAIL DETAIL
1/2" = 1'-0"



5 (RMHC) COIN COLLECTOR @ FRAMED WALL
1/2" = 1'-0" INTERIOR ELEVATION



6 DETAIL NOT USED
A2.1

- KEY NOTES:**
- AL ALUMINUM BATTEN SYSTEM
MFR: B+N INDUSTRIES
SIZE: 2"x2" PROFILE
COLOR: WOOD GRAIN, BACKRAIL UNFINISHED, ENDCAP PAINTED TO MATCH
 - AP ALPOLIC METAL PANEL (COLOR: RAL 7022)
 - C1 ALUMINUM CANOPY SYSTEM W/FASCIA
COLOR: WHITE
 - C2 ALUMINUM CANOPY SYSTEM
COLOR: RAL 7022
 - C3 ALUMINUM CANOPY TIEBACK
COLOR: RAL 7022
GC TO PROVIDE CONTINUOUS BLOCKING ON WALL BEHIND TIEBACKS
 - CJ CONTROL JOINT
1-TYPE: 1 = EIFS
 - D HOLLOW METAL DOOR
PAINT: SHERWIN WILLIAMS SW-7019 GAUNTLET GRAY
 - DE DECAL BY GRAPHICS SUPPLIER
SURFACE APPLIED, FIELD INSTALLED, PRE CUT, PRE SPACED.
SUPPLIERS:
VOMELA (865) 330-7337, ann.bowen@vomela.com
SEX INTERNATIONAL (847) 543-4600,
mcdonaldsdecor@stx.com
 - DS DOWNSPOUT PAINT TO MATCH SURROUNDING MATERIAL.
CONNECT TO STORM LINE REFER PLUMBING & CIVIL
 - E EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
C1-COLOR:
C1 = "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
 - FB FILL BOX
C02 = CO2 = BULK CO2 FILL BOX (EQPM SCHEDULE ITEM 49.00)
BO = BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18)
 - FL FIBER CEMENT LAP SIDING: HARDIEPLANK LAP SIDING,
SMOOTH, 8 1/4" WIDTH, 7" EXPOSURE, HZS, COLOR:
SCHEME-STEEL: AGED PEWTER
 - FT FIBER CEMENT TRIM: HARDIETRIM BOARDS, 4/4 SMOOTH,
1 5/8" & 3 1/2" WIDTH, 3/4" THICK, HZS, COLOR:
AGED PEWTER (CHECK 1 5/8" PRE-PAIN AVAILABILITY)
 - GR GUARD RAIL -SEE SITE PLAN FOR EXACT LOCATION
AND LENGTH-SEE 4/A2.1 FOR DETAILS
 - L1 L1 = SLIM LED (DOWN ONLY)
L2 = INTEGRAL CANOPY FIXTURE
L3 = UP ONLY FLOOD FIXTURE
 - L2 RADIAL SCONCE LIGHT FIXTURE - SEE ELECTRICAL
C1-COLOR:
C1 = WHITE
C2 = PLATINUM SILVER
 - LE ACCENT LIGHTING - SEE ELECTRICAL
L1-LED LIGHT:
L1 = SLIM LED (DOWN ONLY)
L2 = INTEGRAL CANOPY FIXTURE
L3 = UP ONLY FLOOD FIXTURE
 - PB PIPE BOLLARD - PAINTED YELLOW
 - PT (RMHC) COIN COLLECTOR
UNIT: APERTURE WPT, #07A2013
CALL 1-877-766-7642 TO ORDER
 - MF METAL FASCIA
C1-TYPE:
1 = PRE-FAB ANCHOR-TITE FASCIA
2 = BOTTOM TRIM AT METAL REVEAL PANEL
3 = VERTICAL TRIM AT METAL REVEAL PANEL
CORNERS, CLOSURES
COLOR:
C1 = CITYSCAPE
C2 = RAL 7022
 - RO ROOF DRAIN OVERFLOW PIPE PAINT TO MATCH
SURROUNDING MATERIAL
 - S MCDONALD'S SIGNAGE BY OTHERS - UNDER
SEPARATE PERMIT.
C1-COLOR:
C1 = WEATHERED ZINC RACEWAY
C2 = RAL 7022 RACEWAY
 - ST CO2 STROBE/ALARM. SEE MECHANICAL DRAWINGS
FOR SPECIFICATION.
 - TE TRU EXTERIOR 1"x6" TRIM, PAINTED ON SITE
COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
 - UN METAL UNDERSCORE
COLOR: GOLD
 - W1 EXTERIOR WINDOW ASSEMBLY - TEMPERED GLASS
COLOR: EXTRA DARK BRONZE - SEE ASSEMBLY NOTES
ON 4/A5.0 & FRAME TYPES ON SHEET A5.0
 - W2 DRIVE-THRU WINDOW BY READY ACCESS
MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH
TRANSOM, MANUAL OPEN; ELECTRONIC RELEASE
COLOR: DEEP BRONZE
SLIDE DIRECTION: RL = RIGHT TO LEFT
LR = LEFT TO RIGHT

| REV | DATE | DESCRIPTION | BY |
|-----|-----------|--|----|
| A | 8/10/2023 | ADJUST DT WINDOW DIMENSIONS AND EQUIPMENT + REMOVE BGC | |

PREPARED BY:
McDonald's USA, LLC
ARCHITECTS/ENGINEERS, INC.
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973.883.8570 fax 973.883.8501
http://www.aecom.com

| DATE | ISSUE | REVISION | DESCRIPTION |
|------------|-------|----------|--|
| 04-25-2023 | 01 | | WOOD BEARING WALLS W/ HARDIE BOARD SIDING & C1 |
| 04-25-2023 | 02 | | WOOD ROOF TRUSS FRAMING |
| 04-25-2023 | 03 | | EIFS/BATTEN/ALPOLIC PANEL/HARDIE BOARD SIDING |

TITLE: 2022 STANDARD BUILDING - BB20
4597-WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS W/ HARDIE BOARD SIDING & C1
WOOD ROOF TRUSS FRAMING
EIFS/BATTEN/ALPOLIC PANEL/HARDIE BOARD SIDING

SHEET NO. 020-0015.00.0
A2.1
ELEVATIONS