

1. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THE CONTRACT DOCUMENTS.
2. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE BEGINNING DEMOLITION.
4. THE CONTRACTOR SHALL COORDINATE SITE DEMOLITION EFFORTS WITH ALL TRADES THAT MAY BE AFFECTED BY THE WORK.
5. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS REQUIRED TO FACILITATE CONSTRUCTION, AND LEGALLY DISPOSED OF OFFSITE BY CONTRACTOR.
6. UTILITY PIPES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT THEIR ENDS WITH WATER-TIGHT BRICK MASONRY OR CEMENT MORTAR WITH A MINIMUM OF 30 INCHES OF FRESH CONCRETE.
7. UTILITY PIPES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF THE ENTIRE LENGTH OF PIPE AND BACKFILL AND 95% COMPARISON OF THE VOID WITH ORDINARY BORROW. WHEN THE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRADY BORROW SHALL BE USED TO BACKFILL THE VOID.
8. UTILITY STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL HAVE THEIR CAST IRON CASTINGS REMOVED AND DISPOSED, INLET AND OUTLET PIPES PLUGGED, THE STRUCTURE TO BE REMOVED BROKEN, THE VOID OF THE STRUCTURE TO BE REMOVED SHALL BE BACKFILLED TO 95% WITH ORDINARY BORROW OR FLOWABLE FILL, AND THE TOP OF THE STRUCTURE SHALL BE REMOVED SO THAT IT IS AT LEAST 36 INCHES BELOW FINISH GRADE.
9. UTILITY STRUCTURES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF CAST IRON CASTINGS, PLUGGING OF INLET AND OUTLET PIPES, REMOVAL OF THE STRUCTURE, AND BACKFILL AND 95% COMPARISON OF THE VOID WITH FLOWABLE FILL. WHEN THE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRADY BORROW SHALL BE USED TO BACKFILL THE VOID.
10. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
12. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
13. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL MAINTAIN THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE DEMOLITION WORK.
14. REMOVE AND GRANULATE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, STAKE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.
15. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE LANDSCAPE ARCHITECT.
16. BEFORE ANY TREES OR SHRUBS ARE REMOVED, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND SHRUBS THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NOT BEGIN REMOVAL OPERATIONS WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
17. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION HEREIN SPECIFIED ON THE DRAWINGS OR NOT.

1. A QUALIFIED WETLAND SCIENTIST SHALL SUPERVISE ALL ASPECTS OF THE PROPOSED WETLAND REPLICATION AREA AND WETLAND RESTORATION AREAS (WRAS) DURING CONSTRUCTION. THE SUPERVISOR SHALL OVERSEE EROSION CONTROLS, SITE PREPARATORY, GRADING, BACKFILLING, PLANTING AND SEEDING.
2. THE LIMITS OF THE WETLAND REPLICATION AREA SHALL BE STAKED IN THE FIELD PRIOR TO CONSTRUCTION AND CERTIFIED TO BE ACCURATELY LOCATED BY A PLS. FLAG OR CORNER OF RECORD OF THE PROJECT. THE WETLAND REPLICATION AREA SHALL BE BOUND BY A WETLAND BOUNDARY TO REMAIN. INSTALL EROSION CONTROL BARRIER (E.C. FLAG, STRAW WATTLIES OR COMPOST FILTER TULL) ALONG INTERSECTION OF THE WRAS AND ADJACENT WETLAND. THE EROSION CONTROL BARRIER SHALL BE DESIGNED AND CONSTRUCTED TO BE REQUIRED TO ACHIEVE A SUITABLE HYDROLOGIC CONNECTION TO THE WRAS. ONCE THE WRAS AND ADJACENT SIDE SLOPE HAVE BEEN GRADED, INSTALL AN EROSION CONTROL BARRIER (E.C. FLAG, STRAW WATTLIE OR COMPOST FILTER TULL) AT THE SIDE SLOPE TO PROTECT THE WRAS.
3. DURING CONSTRUCTION OF THE WRAS, THE SUPERVISORY WETLAND SCIENTIST SHALL OVERSEE THE PROPOSED GRADING AND PLANTING SCHEME. THE FINAL ELEVATION OF THE WRAS SHALL BE A MINIMUM OF 0.2' HIGHER THAN THE FINAL DESIGN GRADE TO ADJACENT WETLAND. DURING CONSTRUCTION, THE WRAS SHALL BE EXCAVATED TO FINAL GRADE UNLESS A SUITABLE TOPSOIL IS NOT ENCOUNTERED, AT WHICH TIME THE WRAS SHALL BE EXCAVATED TO 12" BELOW THE FINAL DESIGN GRADE. THE GRADIENT TO FACILITATE THE PLACEMENT OF TRANSLOCATED WETLAND SOILS AND/OR APPROVED CLEAN WETLAND SOIL (12% ORGANIC CARBON CONTENT (OR 20% ORGANIC MATTER CONTENT) AND EROSION RESISTANT) SHALL BE MAINTAINED. FOR THE ESTABLISHMENT OF WETLAND VEGETATION, WETLAND SOILS WILL CONSIST OF THE TOPSOIL (0 OR A HORIZON) FROM THE WETLAND IMPACT AREA(S) AND/OR A WETLAND SOIL MIXTURE OF 50% TRANSLOCATED WETLAND SOILS AND 50% APPROVED CLEAN WETLAND SOIL. FINE SANDY LOAM, OR SILT LOAM WITH DECOMPOSED LEAF LITTER AT A 1:1 RATIO. TOPSOIL SHALL BE PLACED IN THE WRAS TO A MINIMUM OF 12" DEPTH. STONES, COARSE SAND, NOXIOUS WEEDS, WOOD SEEDS OR OTHER LITTER, SETTLING OF SOILS SHALL BE TAKEN INTO CONSIDERATION FOR FINAL ELEVATIONS.
4. MICROTOPOGRAPHY SHALL BE ESTABLISHED WITHIN THE WETLAND REPLICATION AREA UNDER THE CLOSEST OVERSIGHT OF THE WETLAND SCIENTIST BASED ON HYDROLOGY AND TOPOGRAPHY.
5. IF THE WETLAND SCIENTIST APPROVES USE OF TRANSLOCATED WETLAND SOILS (FROM WETLAND IMPACT AREA(S), AND THE SOILS ARE NOT USED IMMEDIATELY, COVER STOCKPILE TO AVOID DESICCATION. TRANSPLANT WETLAND VEGETATION TO EXTENT FEASIBLE WITHIN WRAS.
6. INSTALL SHRUBS AND TREES, ADJ. WOODY DEBRIS, AND THEN FERNS AND/OR HERBACEOUS PLANTS TO BOUNDARY OF WRAS.
7. IF PROPOSED APPLIED WETLAND SEED MIX AT THE SPECIFIED APPLICATION RATE OR HIGHER IF APPLIED AT THE END OF THE GROWING SEASON AND LIGHTLY RAKE TO ENSURE SEED-TO-SOIL CONTACT. THERE SHALL BE NO SEEDING IN AREAS OF STANDING WATER. DO NOT APPLY WATER FOOT SHIRTS AND TREE PLANTINGS.
8. IF PROPOSED, APPLIED CONSERVATION SEED MIX TO SIDE SLOPES AT THE SPECIFIED APPLICATION RATE OR HIGHER IF APPLIED AT THE END OF THE GROWING SEASON AND APPLY A LIGHT MULCH OF CLEAN WEE FREE STRAW.
9. THE SUPERVISORY WETLAND SCIENTIST SHALL RESERVE THE RIGHT TO REJECT ACCEPTANCE OF WETLAND PLANT SPECIES UPON DELIVERY BASED ON PLANT HEALTH, PLANTING, ORIGIN, OR PLANTING METHOD. PLANTING SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN AND SPECIFICATIONS. ALL PLANTINGS SHALL BE NATIVE VARIETIES WITH NO LANDSCAPE CULTIVARS ACCEPTED. DURING TRANSPORT, THE PLANTS SHALL BE STORED IN A COOL, DARK, SHADY AREA. PLANTS SHALL BE STORED IN A SHADY, ON-SITE, THEY SHALL BE CARED FOR TO MINIMIZE STRESS; DAILY INSPECTION TO MONITOR PLANT HEALTH. PLANTS SHALL BE STORED IN PARTIAL SHADE CONDITIONS AND SHALL NOT BE STORED ON A HOT IMPERVIOUS SURFACE. TRANSPLANTING WETLAND VEGETATION FROM OTHER AREAS OF THE PROJECT SHALL BE CONSIDERED FEASIBLE FOR RELIANT WITHIN WRAS WITH APPROVAL FROM THE WETLAND SCIENTIST.
10. INSTALL A PATCHY LAYER OF LEAF LITTER OVER THE SOIL FOLLOWING SEEDING. LEAF LITTER SHALL BE SALVAGED IN AREAS WHERE CONSTRUCTION IS PLANNED WHERE A FUTURE NATIVE, INVASIVE SPECIES ARE PLANTING.
11. THE SUPERVISORY WETLAND SCIENTIST SHALL RESERVE THE RIGHT TO REQUIRE A FUTURE NATIVE WATERWAY PROGRAM FOR PLANTINGS.
12. REMOVE EROSION CONTROL BARRIERS UPON STABILIZATION OF THE SIDE SLOPE, WETLAND REPLICATION AREA AND WETLAND RESTORATION AREA.

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE "MASSACHUSETTS SEDIMENTATION AND EROSION CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" PREPARED BY DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF RESOURCE PROTECTION, AND THE CURRENT NPDES GENERAL PERMIT FOR STORMWATER POLLUTION.
2. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE MINIMUM RECOMMENDED PROVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION AND PLACEMENT OF EROSION AND SEDIMENTATION CONTROLS BASED ON THE SPECIFIC SITES AND CONDITIONS. ADDITIONAL MEANS OF EROSION AND SEDIMENT PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFINISHED EROSION PROBLEMS, OR AS DIRECTED BY CONTROLLING MUNICIPAL AUTHORITIES.
3. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED IN THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
4. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. ALL PHASES OF CONSTRUCTION SHALL BE CONSTRUCTED PRIOR TO, AND IMMEDIATELY AFTER, ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
5. AFTER ANY SIGNIFICANT RAINFALL (GREATER THAN 0.25 INCHES OF RAINFALL WITHIN 24 HOURS), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGE SHALL BE CORRECTED IMMEDIATELY.
6. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE REQUIRED THROUGHOUT THE PROJECT. IF THE INTENDED PURPOSE IS ACCOMPLISHED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM ENTERING ANY STORM DRAINAGE SYSTEM AND FROM BEING CONVEYED TO ANY WETLAND RESOURCE AREA, PUBLIC WAYS, ABUTTING PROPERTY, OR OUTSIDE OF THE PROJECT LIMIT.
8. THE CONTRACTOR SHALL PROTECT ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK FROM EROSION CONDITIONS, STRAW BALE, CRUSHED STONE OR EQUIVALENT CHECK DAMS SHALL BE PROVIDED AT A MAXIMUM OF TWO HUNDRED FEET OF DRAINAGE SWALE. IN CASE OF SEVERE WEATHER CONDITIONS WARE, WITHIN ALL DRAINAGE SWALES AND DITCHES AND AT UPSTREAM SIDES OF ALL DRAINAGE INLETS.
9. ALL STOCK PILES SHALL BE PROTECTED AND LOCATED A MINIMUM OF 100' FROM EXISTING WETLAND RESOURCE AREAS & WITHIN THE LIMIT OF WORK.
10. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEEP AT THE END OF EACH WORKING DAY.
11. ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFFSITE.
12. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS, AND ANY OTHER SURFACE SHALL BE EXPOSED TO THE PUBLIC. ALL CALIBERWAYS SHALL BE PROTECTED AND MAINTAINED TO PREVENT EROSION. THESE AREAS SHALL BE STABILIZED/PROTECTED WITH APPROPRIATE EROSION CONTROL MATTING OR OTHER EROSION CONTROL METHODS.
13. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS DIRECTED BY THE TOWN OF WAKEFIELD.
14. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED.
15. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE END OF THE PROJECT. SEEDING SHALL BE ONLY WHEN DIRECTED BY THE TOWN OF WAKEFIELD CONSTRUCTION AGENT. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.
16. THE USE OF SODIUM CHLORIDE FOR DE-ICING OR ROADWAY TREATMENT IS NOT ALLOWED. THE CONTRACTOR SHALL FOLLOW THE TOWN OF WAKEFIELD'S DEPARTMENT OF TRANSPORTATION GUIDELINES FOR TREATMENT OF NO-SALT AREAS.

AREAS OF TEMPORARY WETLAND ALTERATION WILL BE RESTORED IN-KIND AT THE DIRECTION OF THE SUPERVISING WETLAND SCIENTIST. TEMPORARY ALTERATION AREAS WILL BE RESTORED TO ORIGINAL CONDITION BY: 1) REPAIRING EROSION, 2) REPAIRING WETLAND SOIL PROFILES USING A WETLAND TOPSOIL SUITABLE FOR WETLAND REPLICATION AREAS AND SEEDING WITH A WETLAND SEED MIX, AS DESIGNATED BY THE SUPERVISING WETLAND SCIENTIST. 3) REPLANTING OF NATIVE PERENNIALS, GRASSES, SHRUBS AND/OR TREES. TEMPORARY ALTERATION AREAS WHERE ONLY VEGETATION HAS BEEN REMOVED OR DISTURBED ALSO WILL BE SEEDING WITH THE WETLAND SEED MIX AND/OR IN-KIND REPLACEMENT OF NATIVE HERBACEOUS PLANTS. 4) PLANTING OF NATIVE TREES AND SHRUBS. 5) SEEDING WITH HYDRO-SEEDING, STRAW MULCH, AND/OR EROSION CONTROL BLANKETS AT THE DIRECTION OF THE WETLAND SPECIALIST.

2. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "TOPOGRAPHIC SURVEY, NORTHEAST METROPOLITAN REGIONAL HIGHWAY CORRIDOR, WILMINGTON, MA", PREPARED BY NITSON ENGINEERING, DATED JUNE 3, 2020, REVISED THROUGH JULY 7, 2021.
3. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE CITY OF WILMINGTON WITHOUT A PERMIT. IN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, TELEPHONE, CABLE OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.
4. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82A, WHICH PROVIDES THAT THE CONTRACTOR SHALL BE DETAINED IN SECTION 520 CMR 14.00 OF THE CODE OF MASSACHUSETTS REGULATIONS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS.
6. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND RELAYING IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSON ENGINEERING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS. THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE PROJECT AREA AS WELL AS EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
9. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL CONSTRUCTION DOCUMENTS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PROJECT SITE AND TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN FIELD AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
11. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
12. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
13. ELEVATIONS REFER TO NAVD83 (REFER TO THE EXISTING CONDITIONS SURVEY FOR ADDITIONAL INFORMATION).
14. THE CONTRACTOR SHALL COMPLY WITH THE ORDER OF CONDITIONS DATED XXXX XX, XXXX AND ISSUED BY THE TOWN OF WAKEFIELD CONSERVATION COMMISSION (DEP #XXXX).
15. FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT PREPARED BY LAHLAF GEOTECHNICAL CONSULTING, INC.

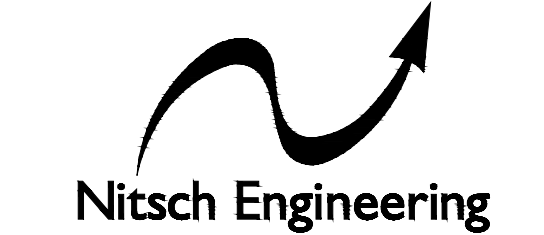
- ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE LOCAL MUNICIPALITY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS RELATED TO UTILITY WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL PERMISSIONS FOR, AND FOR CONDUCTING ALL PREPARATIONS RELATED TO, WORK AFFECTING ANY EXISTING OR PROPOSED CONSTRUCTION OF ANY NON-MUNICIPAL UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO ELECTRIC, TELEPHONE, AND/OR GAS. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES, DEPARTMENTS, AND UTILITY COMPANIES, IN WRITING AT LEAST 14 DAYS BEFORE THE START OF SUCH WORK (PERMIT REQUIREMENT) AND NOT MORE THAN 30 DAYS PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN UTILITIES SERVING BUILDINGS AND FACILITIES WITHIN OR OUTSIDE THE PROJECT LIMIT UNLESS THE INTERRUPTION OF SERVICE IS COORDINATED WITH THE OWNER.
- ALL WATER, SEWER, AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE LOCAL MUNICIPALITY.
- GAS, TELECOMMUNICATIONS AND ELECTRIC SERVICES ARE TO BE DESIGNED BY EACH UTILITY AT ANY IN COORDINATION WITH THE MECHANICAL, ELECTRIC, AND PLUMBING CONSULTANTS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES OF NEW UTILITIES WITH GAS, TELECOMMUNICATION AND ELECTRICAL SERVICES.
- INSTALL WATER LINES WITH A MINIMUM OF FIVE FEET OF COVER AND A MAXIMUM OF SEVEN FEET COVER FROM THE FINAL DESIGN GRADES.
- MAINTAIN 10 FEET HORIZONTAL SEPARATION AND 18 INCHES VERTICAL SEPARATION (WATER OVER SEWER) BETWEEN SEWER AND WATER LINES. WHEREVER THERE IS LESS THAN 10 FEET OF HORIZONTAL SEPARATION AND 18 INCHES OF VERTICAL SEPARATION BETWEEN SEWER AND WATER LINES, THE UTILITY TO REMAIN AND A PROPOSED EXISTING WATER LINE TO REMAIN BOTH WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT GEMENT LINER DUCTILE IRON PIPE. A 12" TO 18" DUCTILE IRON PIPE SHALL BE USED FOR CROSSING. THE FULL LENGTH OF WATER PIPE SHALL BE CENTERED OVER THE SEWER AT THE CROSSING.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED AND/OR REMOVED & DISPOSED.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR TRENCHING, BACKFILLING, AND SURFACE RESTORATION FOR GAS UTILITY SYSTEMS.
- ALL ONSITE UTILITIES SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
- ALL EXISTING AND PROPOSED MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, CASTINGS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL GRADING AND PAVING CONSTRUCTION.
- ALL GRATES IN WALKWAYS SHALL BE AHEAD COMPLAINT.

—	LIMIT OF WORK
EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS	
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○ — ○	STANDARD PERIMETER PROTECTION BARRIER
□ — □	SENSITIVE AREA PERIMETER PROTECTION BARRIER
x — x	CONSTRUCTION FENCE
— W —	DOMESTIC WATER PIPE
— FP —	FIRE PROTECTION PIPE
— S —	SANITARY SEWER PIPE
— D —	STORM DRAIN PIPE
— G —	GAS PIPE
— E —	ELECTRIC DUCT/BANK
— T/C —	TELECOM DUCT/BANK
— FM —	SEWER FORCE MAIN
— F —	FUTURE UTILITY, SHOWN FOR INFORMATION ONLY
⊗	INLET PROTECTION
---	ELEVATION CONTOURS
— — —	MATCH LINE
— — —	CENTERLINE
CO ●	CLEANOUT
● ●	AREA DRAIN
● ●	ACCESS BASIN
●	DRAIN MANHOLE
⊙	WATER QUALITY STRUCTURE
⊕	CATCH BASIN
⊕	DOUBLE CATCH BASIN
⊕	WATER QUALITY INLET
⊕	SEWER MANHOLE
TMH ●	TELECOM MANHOLE
EMH ●	ELECTRIC MANHOLE
WV ⋈	WATER VALVE
HYD ⚡	FIRE HYDRANT
—	TREE REMOVAL

AD	ACCESS BASIN
AE	AREA DRAIN
BE	BOTTOM OF CURB ELEVATION
BW	BOTTOM OF WALL ELEVATION
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
CPP	CORRUGATED POLYETHYLENE PIPE
DCB	DOUBLE CATCH BASIN
DI	DUCTILE IRON PIPE CEMENT LINED
DMH	DRAIN MANHOLE
EHH	ELECTRIC HANDHOLE
EMH	ELECTRIC MANHOLE
FD	FOUNDATION DRAIN
FFE	FINISHED FLOOR ELEVATION
FY	FIRE HYDRANT
INV	INVERT ELEVATION
LF	LINEAR FEET
LOW	LOWEST LIMIT OF WORK
M&P	MAINTAIN AND PROTECT
OCS	OUTLET CONTROL STRUCTURE
PD	PERIMETER DRAIN
PERF	PERFORATED
PVC	POLYVINYL CHLORIDE PIPE
R&D	REMOVE AND DISPOSE
R&S	REMOVE AND STOCKPILE
RD	ROOF DRAIN
RIM	RIM ELEVATION
ROW	RIGHT OF WAY
SMH	SEWER MANHOLE
TC	TOP OF CURB ELEVATION
TW	TOP OF WALL ELEVATION
THH	TELECOM MANHOLE
TMH	TELECOM MANHOLE
TY	TYPICAL
VCC	VERTICAL GRATE CURB
WQI	WATER QUALITY NITR
WQS	WATER QUALITY STRUCTURE
WV	WATER VALVE

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IS A PART OF EARLY SITE
PREPARATION BID PACKAGE

EARLY SITE
PREPARATION
CONTRACT
DOCUMENTS

JANUARY 13, 2023

CIVIL NOTES, LEGENDS, AND ABBREVIATIONS

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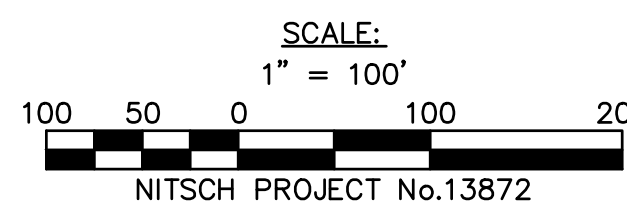
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KEY PLAN

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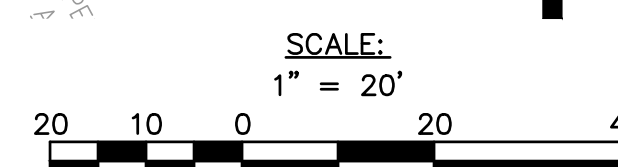
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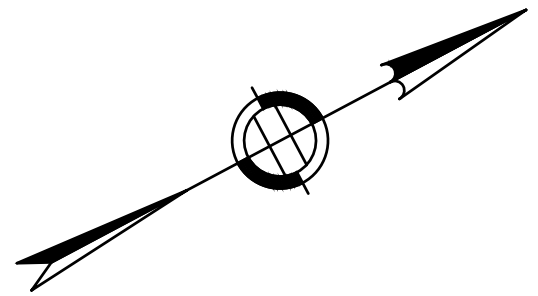
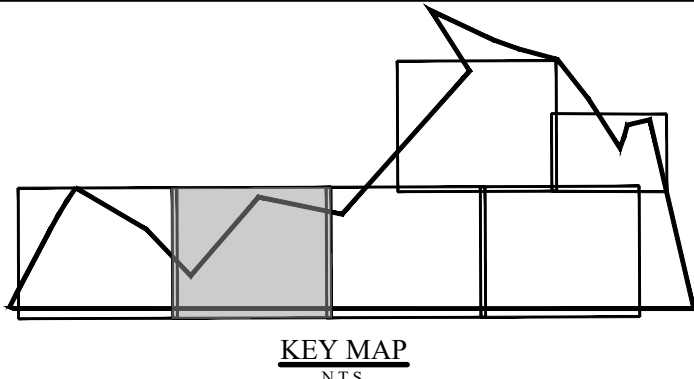
Job No. 13872

Drosten B. W.

Date: JANUARY 13, 200

C-200



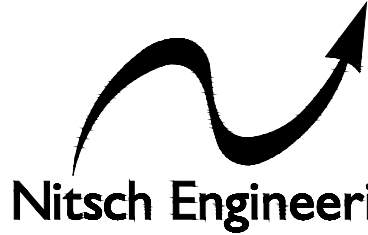


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JANUARY 13, 2023

UTILITY
DEMOLITION PLAN
II

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

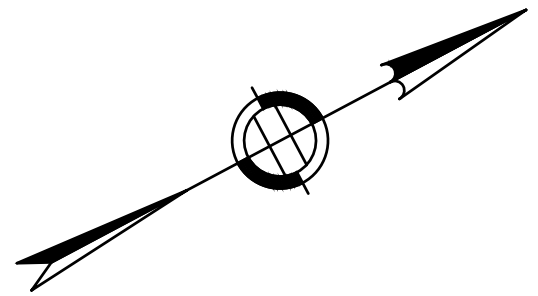
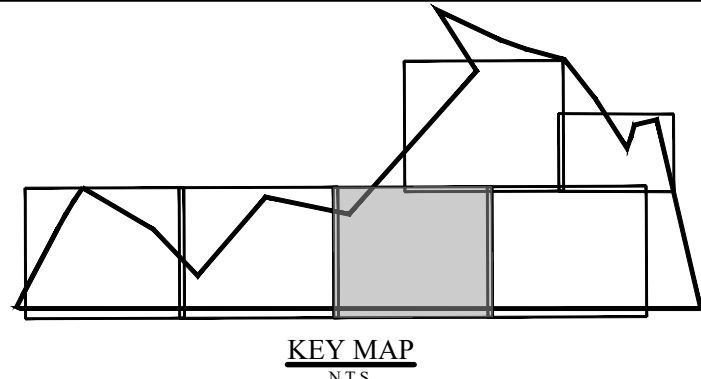
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MATCHLINE SEE SHEET C-200

MATCHLINE SEE SHEET C-202

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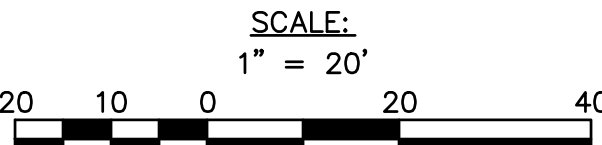
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MATCHLINE SEE SHEET C-201

MATCHLINE SEE SHEET C-204

MATCHLINE SEE SHEET C-203



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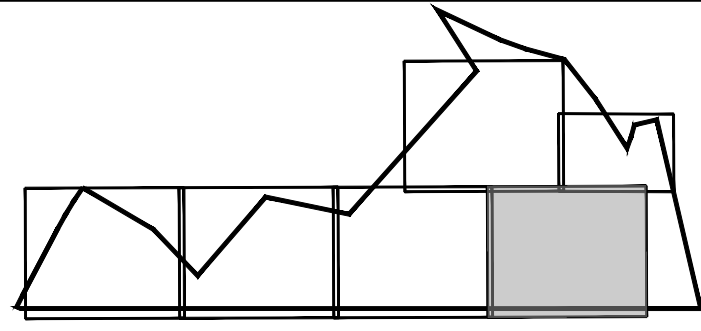
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JANUARY 13, 2023

**UTILITY
DEMOLITION PLAN
III**

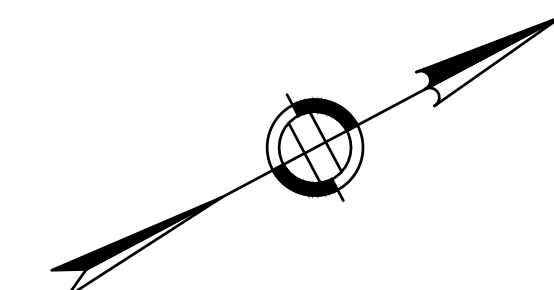
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Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-202



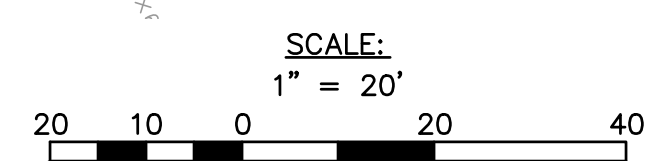
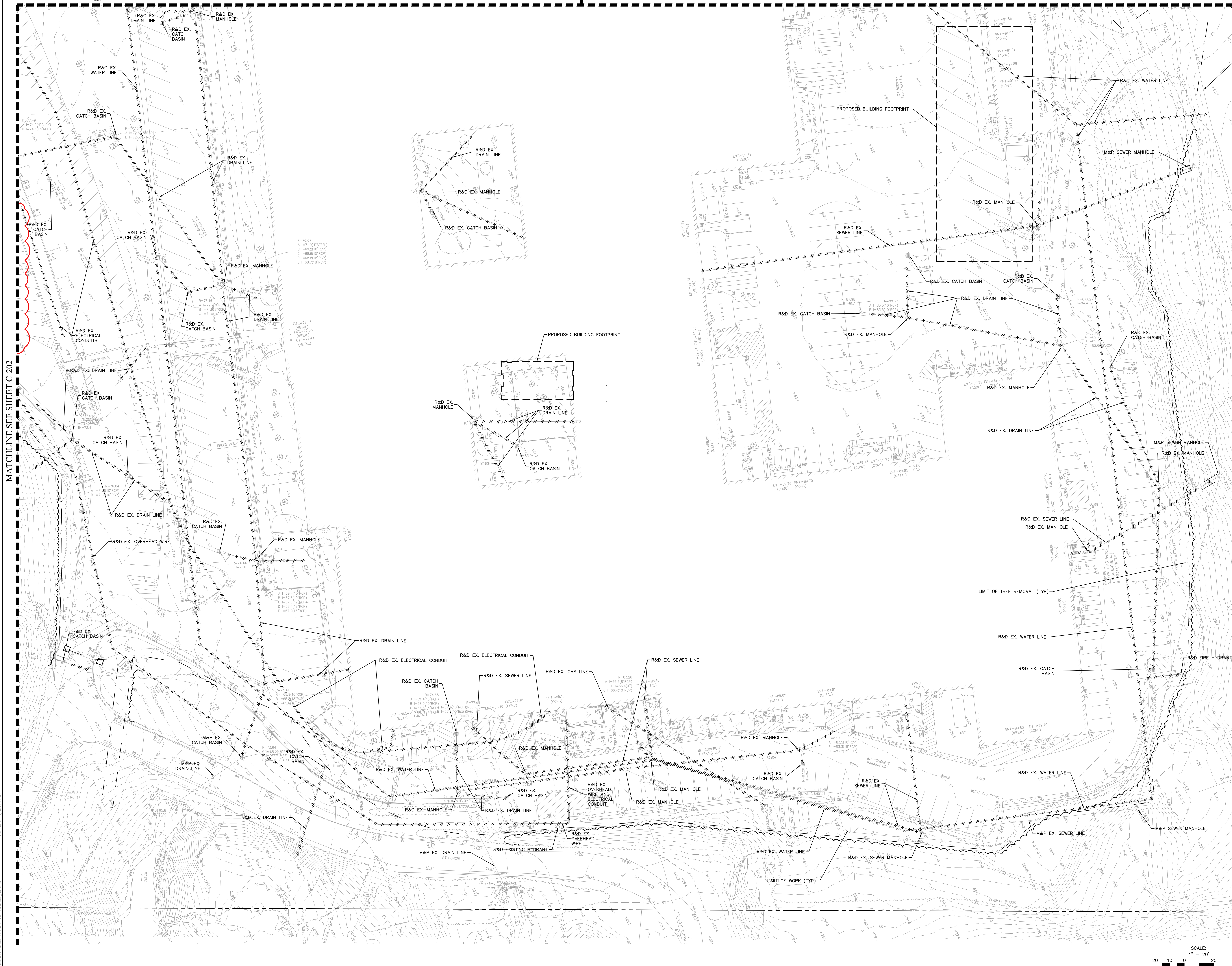
MATCHLINE SEE SHEET C-204

MATCHLINE SEE SHEET C-205



MATCHLINE SEE SHEET C-202

PROJECT NO. 13872
DATE: JANUARY 13, 2023
DRAWN BY: WL
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IN CHARGE: WL



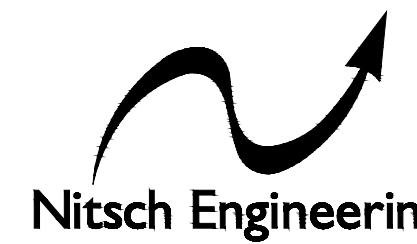
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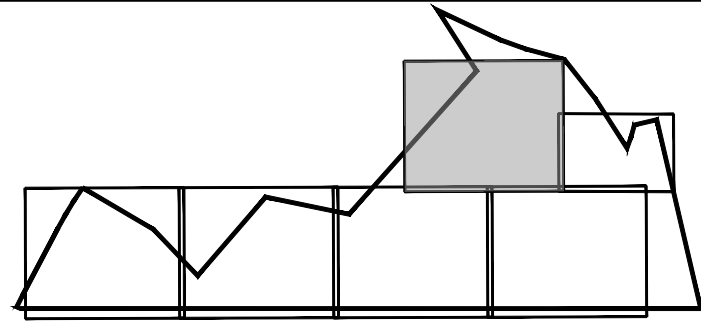
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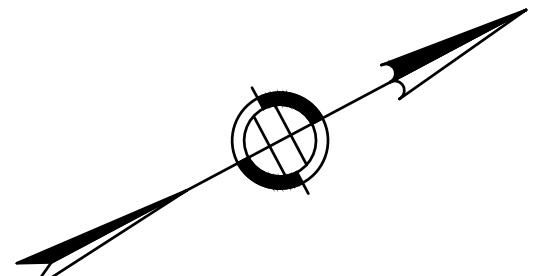
**UTILITY
DEMOLITION PLAN
IV**

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
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C-203



KEY MAP
S15



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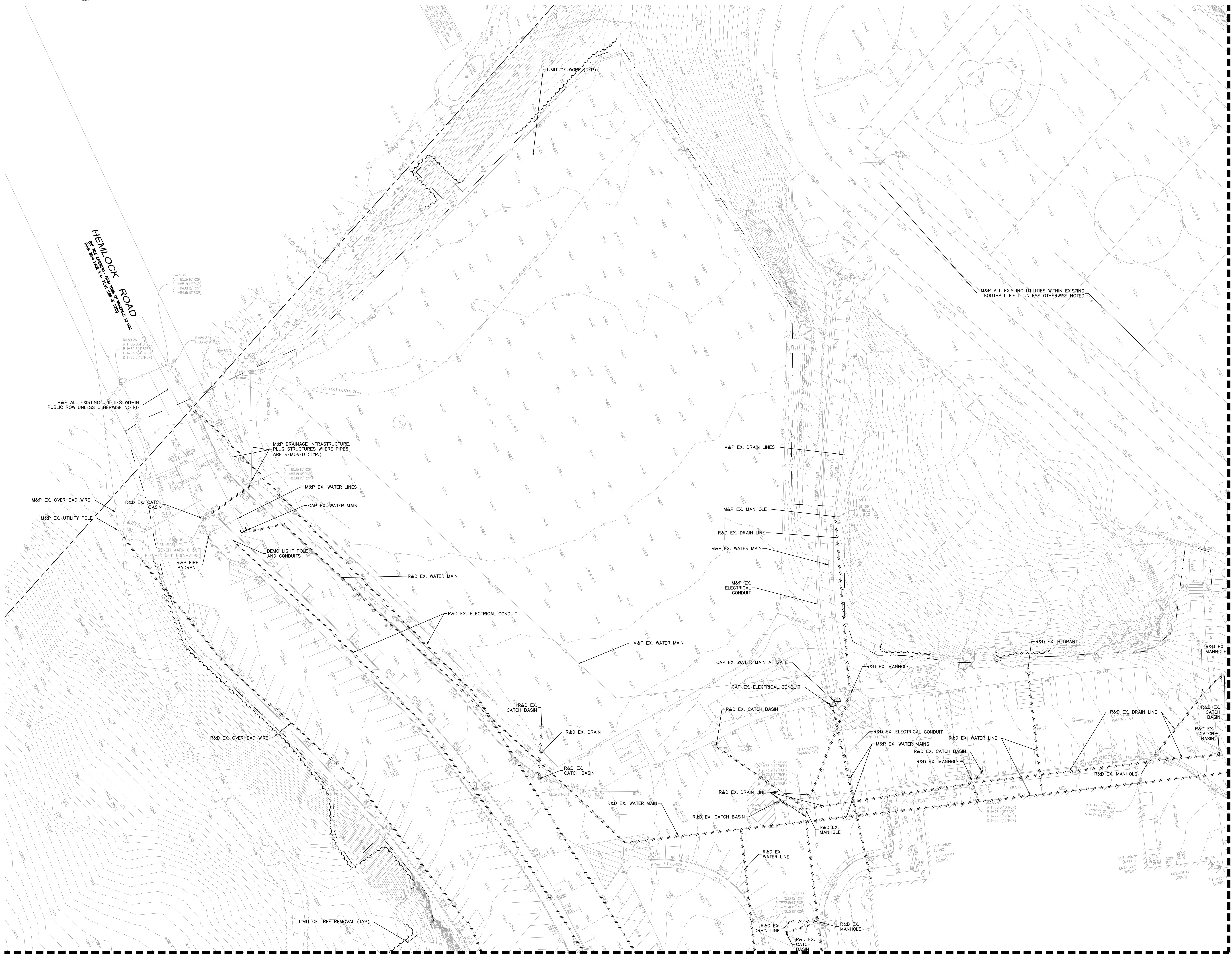
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**UTILITY
DEMOLITION PLAN
V**

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

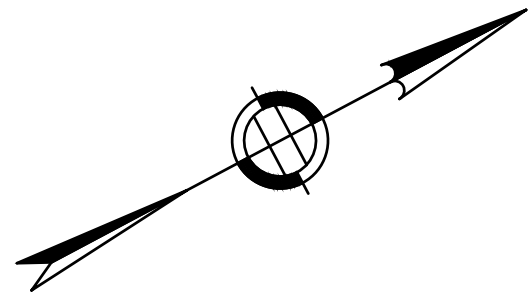
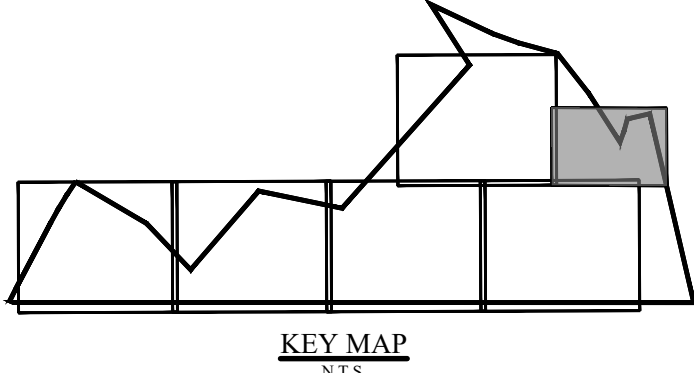
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MATCHLINE SEE SHEET C-202

MATCHLINE SEE SHEET C-203

SCALE
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1" = 20'

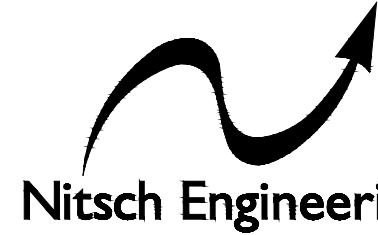


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UTILITY
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VI

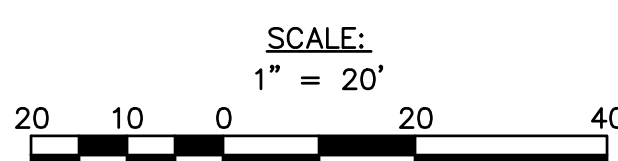
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Job No.: 13872
Drawn By: WL
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C-205

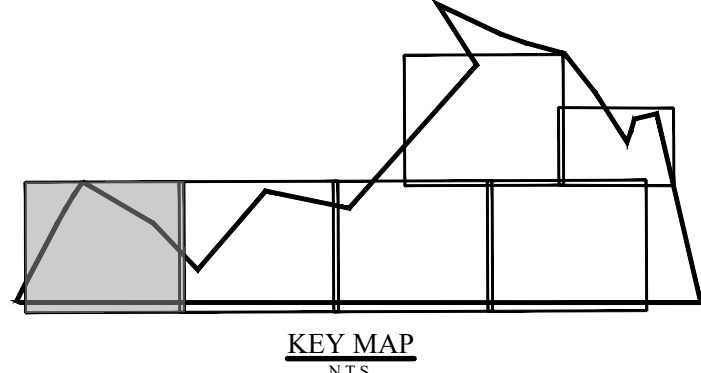


MATCHLINE SEE SHEET C-204

MATCHLINE SEE SHEET C-203



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- NOTES:
- 1) ALL PROPOSED AND EXISTING DRAINAGE INLETS SHALL HAVE SILT SACS/INLET PROTECTION INSTALLED DURING CONSTRUCTION
 - 2) LOCATION OF CONSTRUCTION FENCE AND EROSION CONTROL SET UP AND REMOVAL BETWEEN PHASES ARE THE CONTRACTOR'S RESPONSIBILITY
 - 3) REFER TO SHEET C-000 FOR NOTES, LEGEND AND ABBREVIATIONS
 - 4) REFER TO SHEET C-600 FOR EROSION CONTROL DETAILS

ADD INLET PROTECTION TO ALL DRAINAGE INLETS IN INTERSECTION

CONSTRUCTION GATE

INLET PROTECTION (TYP.)

TEMPORARY CONSTRUCTION FENCE (TYP.)

SENSITIVE AREA PERIMETER PROTECTION BARRIER (TYP.) REFER TO DETAIL SHEET C600.

ADDITIONAL PERIMETER PROTECTION BARRIER AROUND PERIMETER OF WETLAND

LIMIT OF WORK (TYP.)

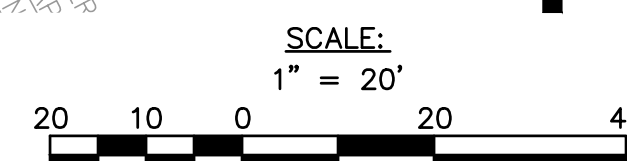
STABILIZED CONSTRUCTION ENTRANCE

ADDITIONAL PERIMETER PROTECTION BARRIER AROUND PERIMETER OF WETLAND

ADDITIONAL PERIMETER PROTECTION BARRIER AROUND PERIMETER OF WETLAND

PROPERTY LINE (TYP.)

MATCHLINE SEE SHEET C-301



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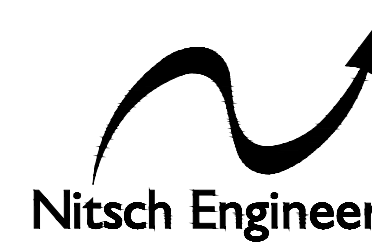
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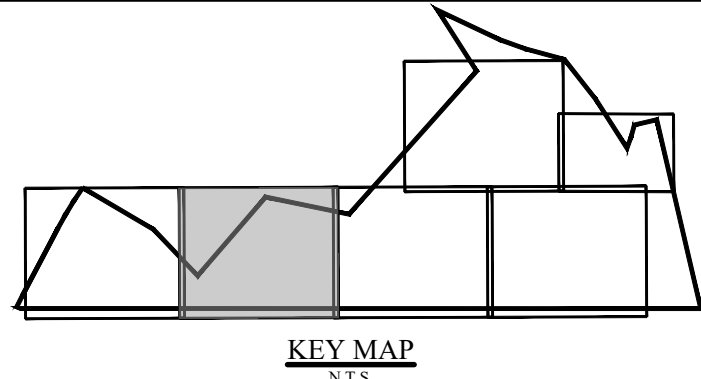
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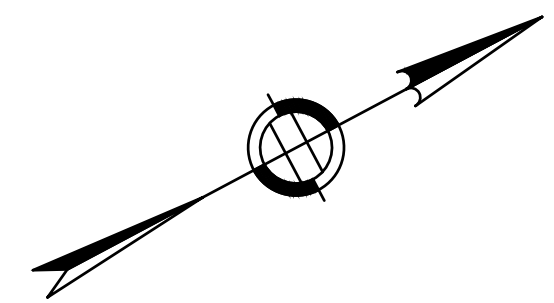
SEDIMENTATION AND EROSION CONTROL PLAN I

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-300



- NOTES:
- 1) ALL PROPOSED AND EXISTING DRAINAGE INLETS SHALL HAVE SILT SACS/INLET PROTECTION INSTALLED DURING CONSTRUCTION
 - 2) LOCATION OF CONSTRUCTION FENCE AND EROSION CONTROL SET UP AND REMOVAL BETWEEN PHASES ARE THE CONTRACTOR'S RESPONSIBILITY
 - 3) REFER TO SHEET C-000 FOR NOTES, LEGEND AND ABBREVIATIONS
 - 4) REFER TO SHEET C-600 FOR EROSION CONTROL DETAILS

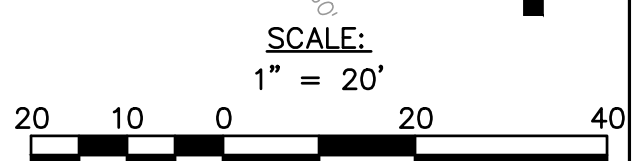
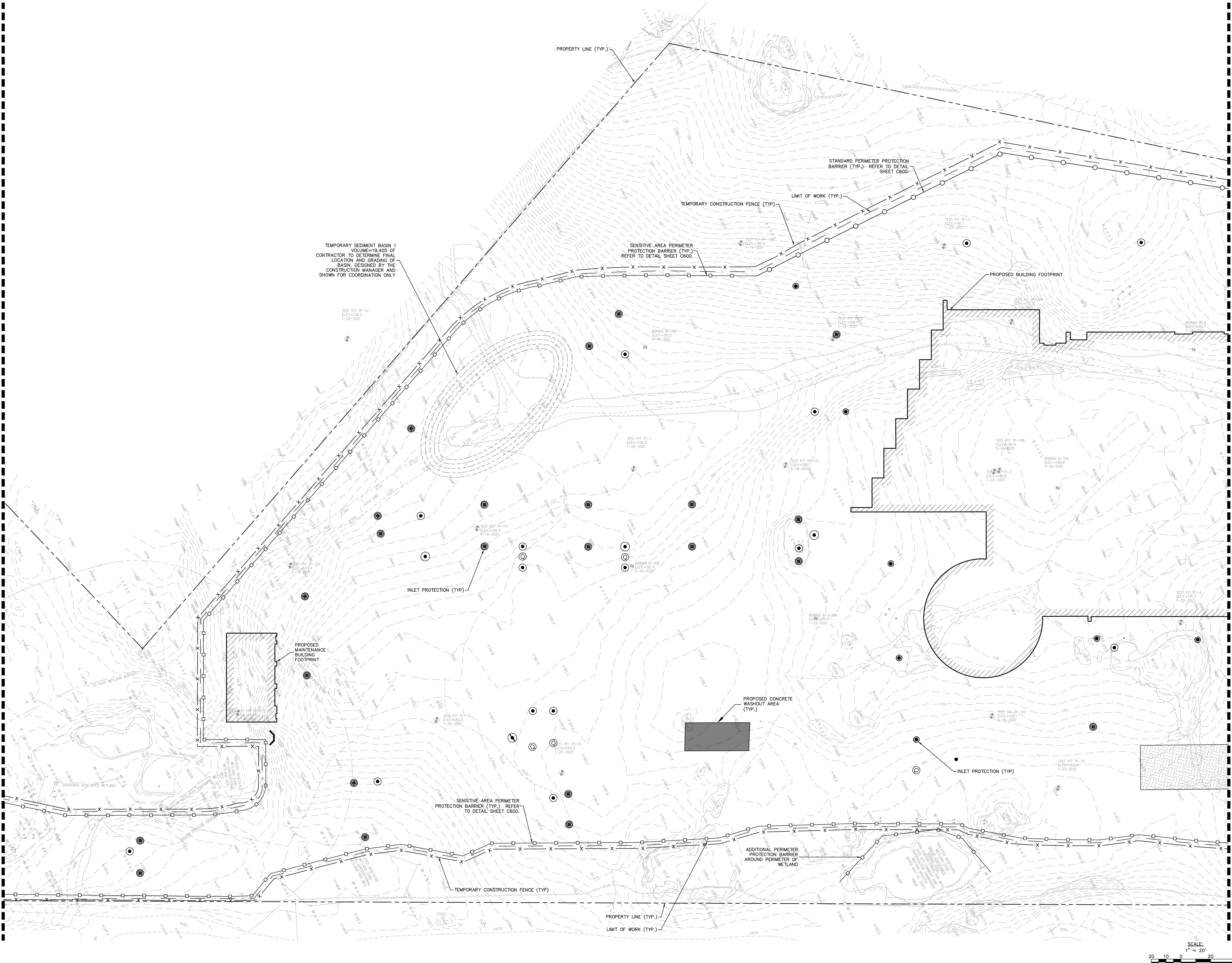


MATCHLINE SEE SHEET C-300

MATCHLINE SEE SHEET C-302

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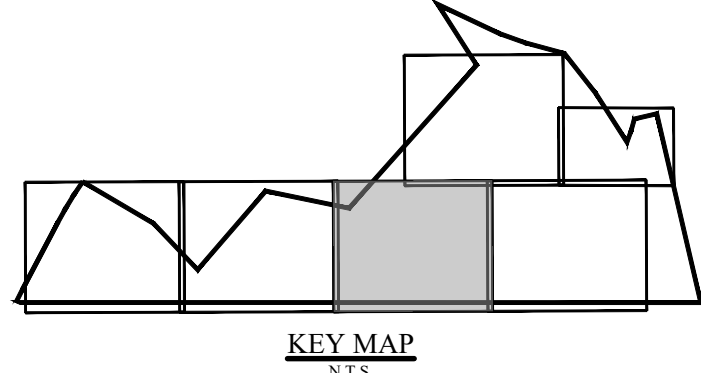
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JANUARY 13, 2023

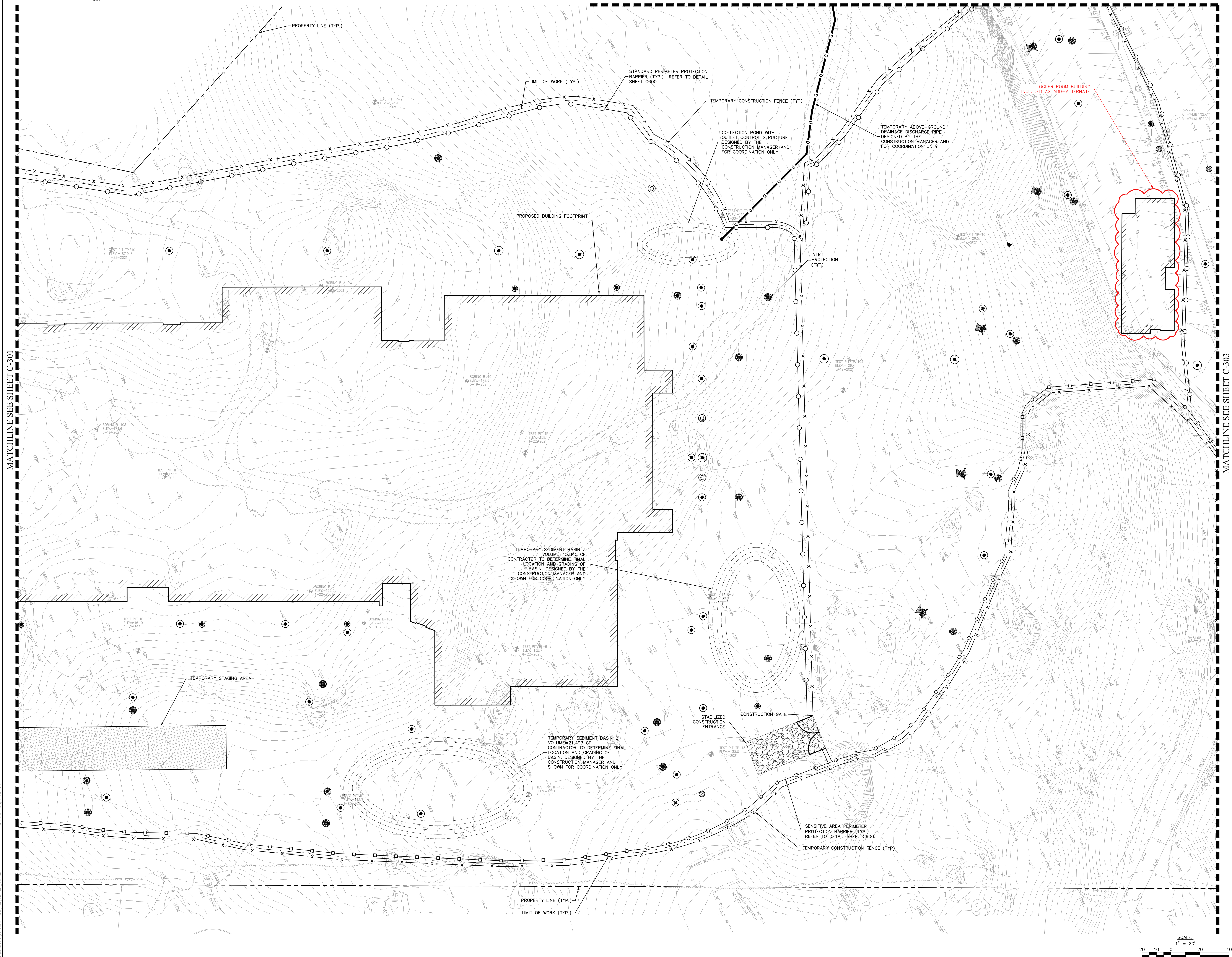
**SEDIMENTATION
AND EROSION
CONTROL PLAN II**

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-301



- NOTES:
- 1) ALL PROPOSED AND EXISTING DRAINAGE INLETS SHALL HAVE SILT SACS/INLET PROTECTION INSTALLED DURING CONSTRUCTION
 - 2) LOCATION OF CONSTRUCTION FENCE AND EROSION CONTROL SET UP AND REMOVAL BETWEEN PHASES ARE THE CONTRACTOR'S RESPONSIBILITY
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 - 4) REFER TO SHEET C-600 FOR EROSION CONTROL DETAILS



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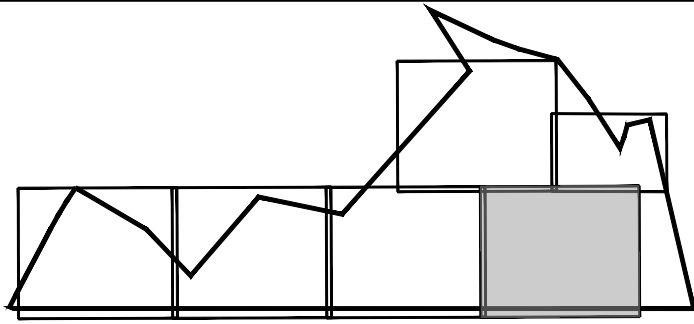
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JANUARY 13, 2023

SEDIMENTATION
AND EROSION
CONTROL PLAN III

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-302

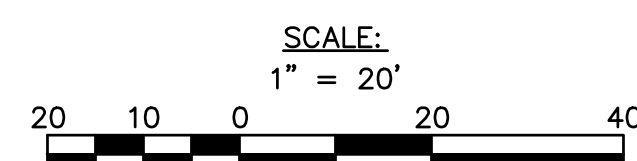


- NOTES:
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 - 3) REFER TO SHEET C-000 FOR NOTES, LEGEND AND ABBREVIATIONS
 - 4) REFER TO SHEET C-600 FOR EROSION CONTROL DETAILS

MATCHLINE SEE SHEET C-304

MATCHLINE SEE SHEET C-305

MATCHLINE SEE SHEET C-302



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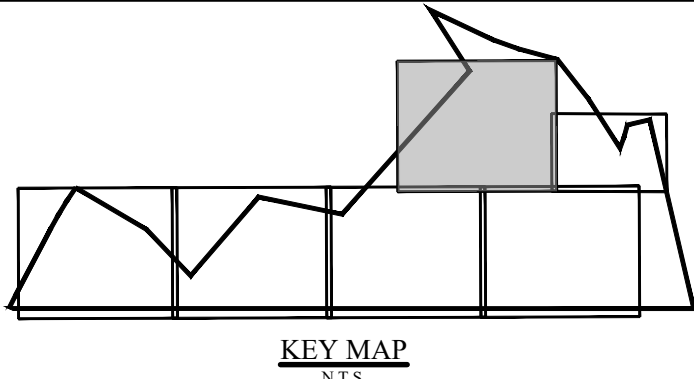
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JANUARY 13, 2023

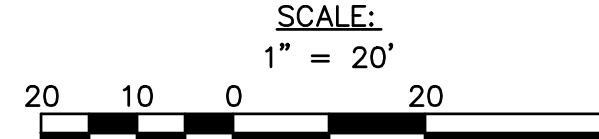
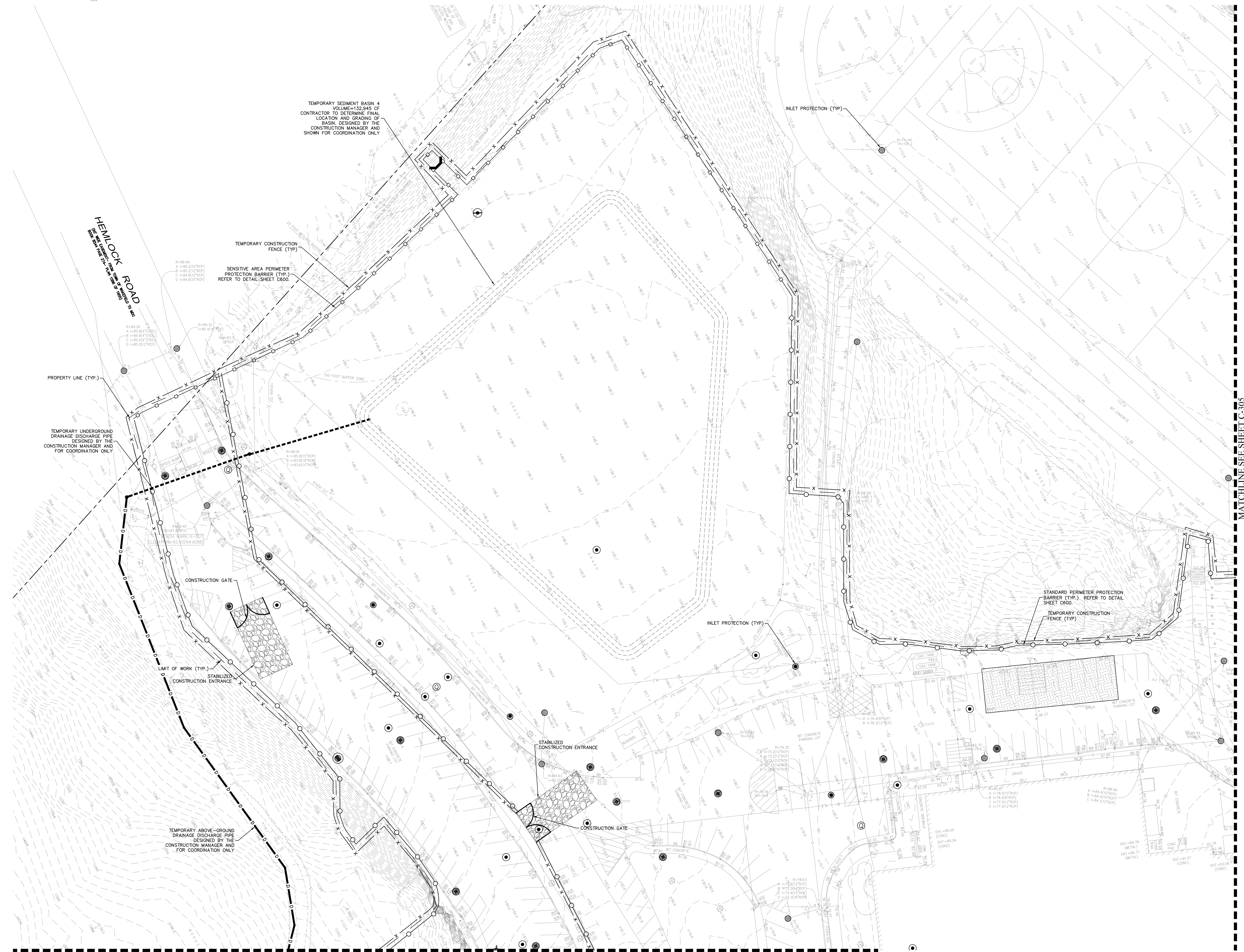
**SEDIMENTATION
AND EROSION
CONTROL PLAN IV**

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-303



- NOTES:
- 1) ALL PROPOSED AND EXISTING DRAINAGE INLETS SHALL HAVE SILT SACS/INLET PROTECTION INSTALLED DURING CONSTRUCTION
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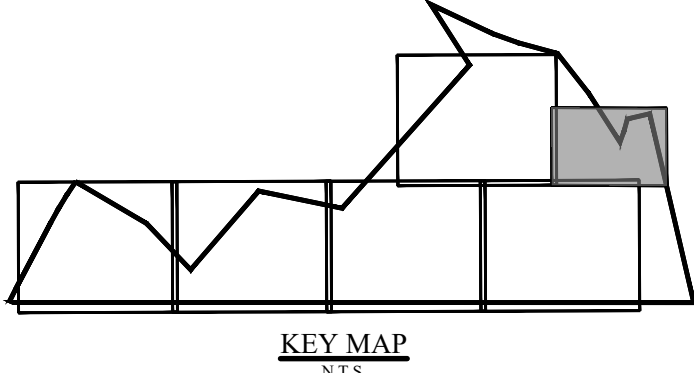
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JANUARY 13, 2023

SEDIMENTATION
AND EROSION
CONTROL PLAN V

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

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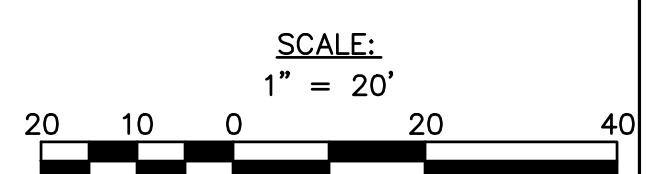


- NOTES:
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MATCHLINE SEE SHEET C-304

MATCHLINE SEE SHEET C-303



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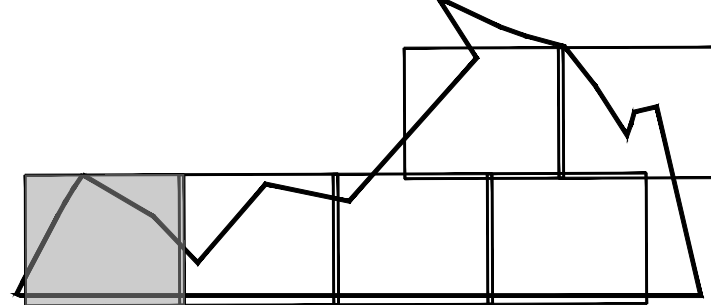
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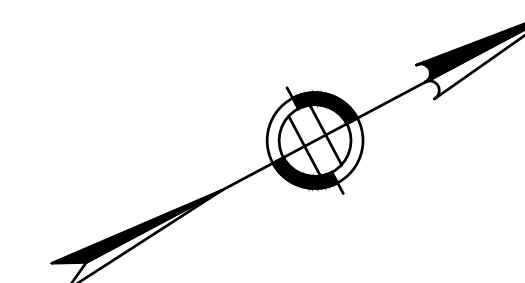
SEDIMENTATION
AND EROSION
CONTROL PLAN VI

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-305



KEY MAP
S13

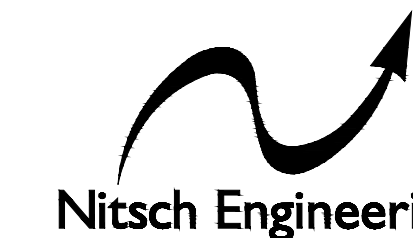


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DRAINAGE PLAN I

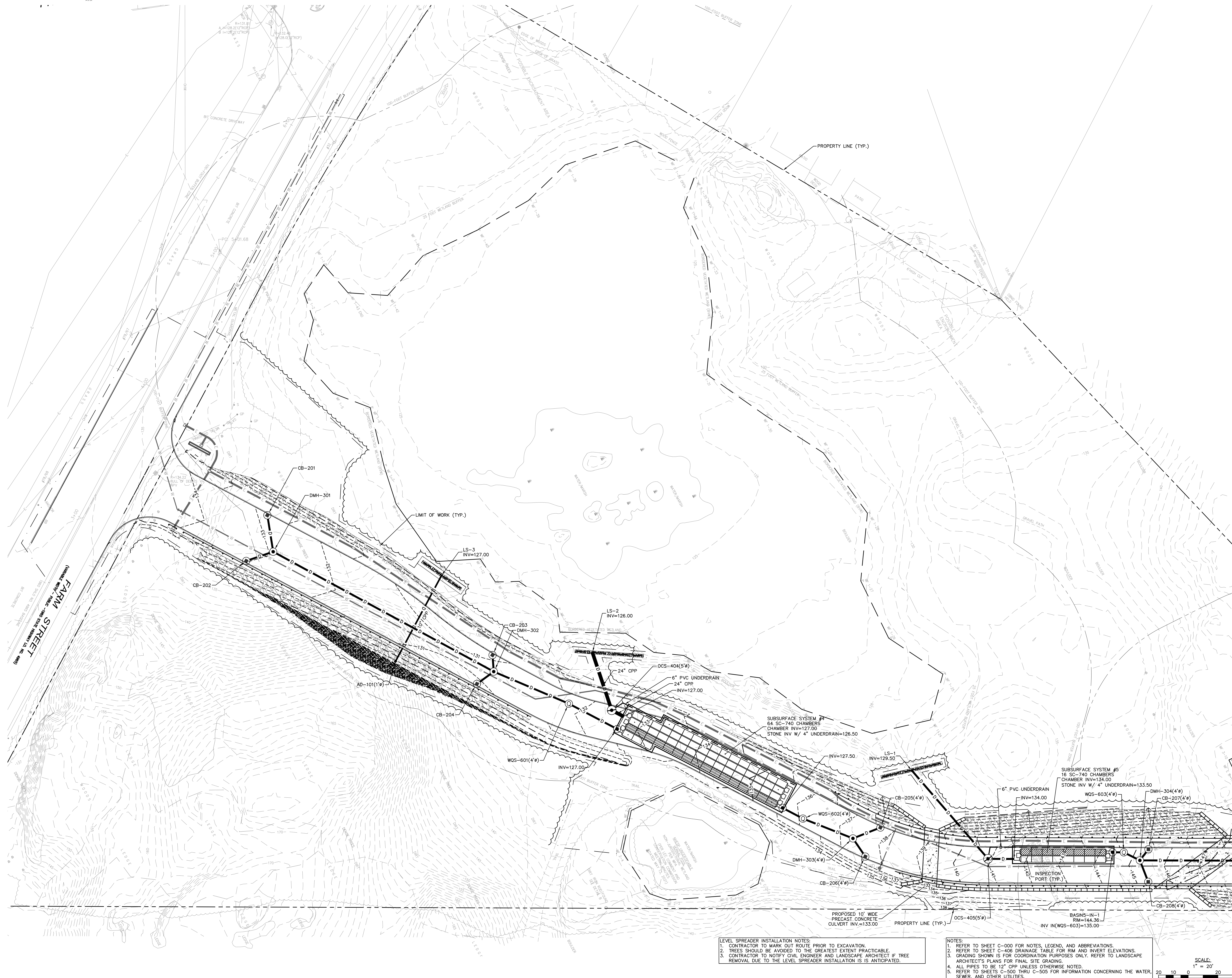
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Drawn By: WL

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C-400



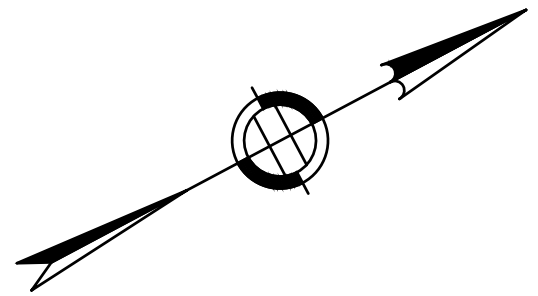
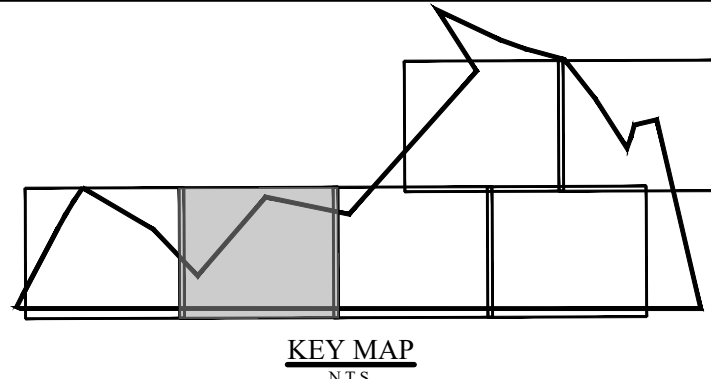
LEVEL SPREADER INSTALLATION NOTES:
1. CONTRACTOR TO MARK OUT ROUTE PRIOR TO EXCAVATION.
2. TREES SHOULD BE AVOIDED TO THE GREATEST EXTENT PRACTICABLE.
3. CONTRACTOR TO NOTIFY CIVIL ENGINEER AND LANDSCAPE ARCHITECT IF TREE REMOVAL DUE TO THE LEVEL SPREADER INSTALLATION IS ANTICIPATED.

NOTES:
1. REFER TO SHEET C-000 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. REFER TO SHEET C-406 DRAINAGE TABLE FOR RIM AND INVERT ELEVATIONS.
3. GRADING SHOWN IS FOR COORDINATION PURPOSES ONLY. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR FINAL SITE GRADING.
4. ALL PIPES TO BE 12" CPP UNLESS OTHERWISE NOTED.
5. REFER TO SHEETS C-500 THRU C-505 FOR INFORMATION CONCERNING THE WATER, SEWER, AND OTHER UTILITIES.

SCALE:
1" = 20'
20 10 0 20 40

MATCHLINE SEE SHEET C-401

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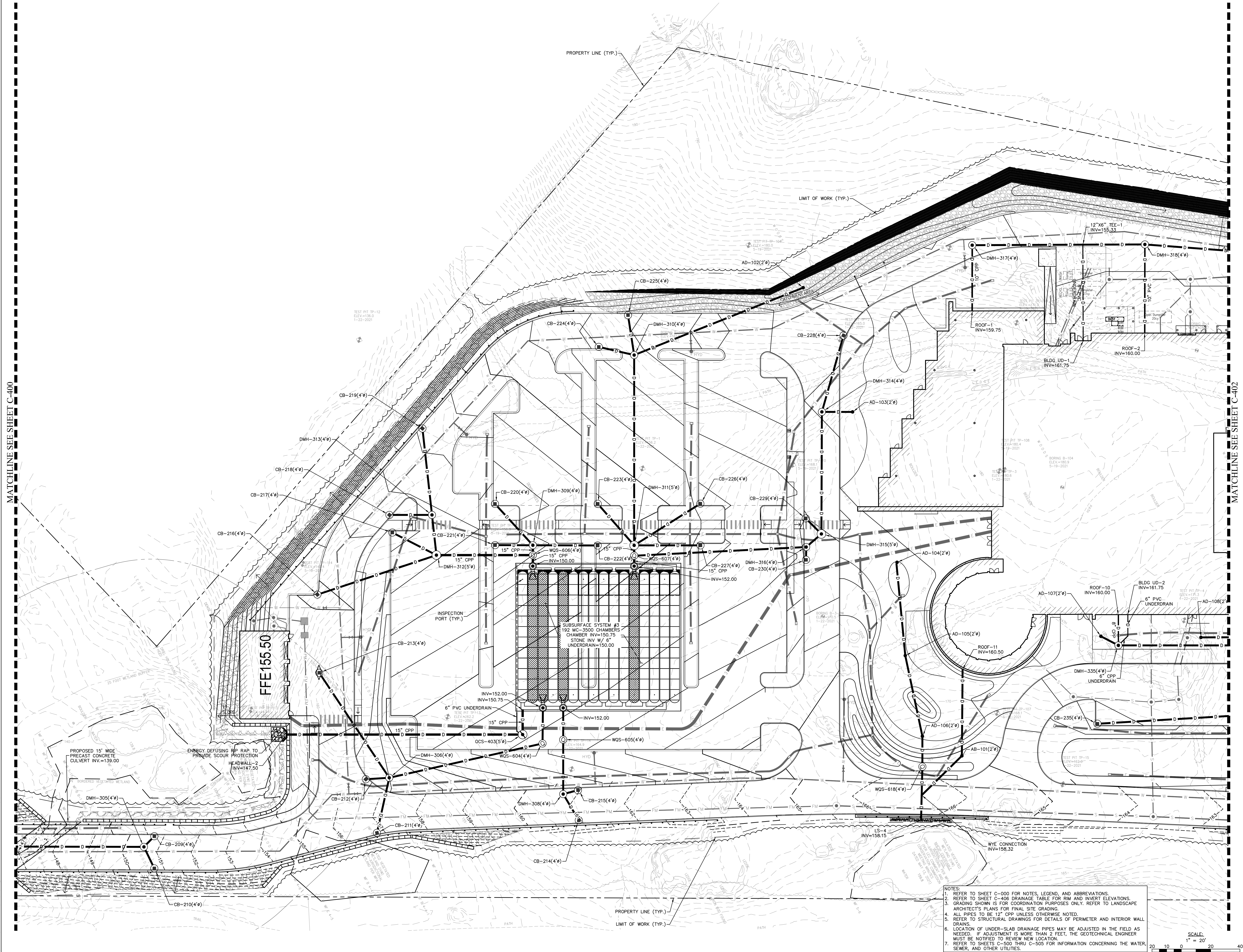
DRAINAGE PLAN II

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-401

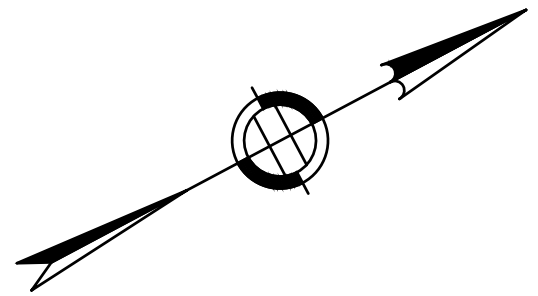
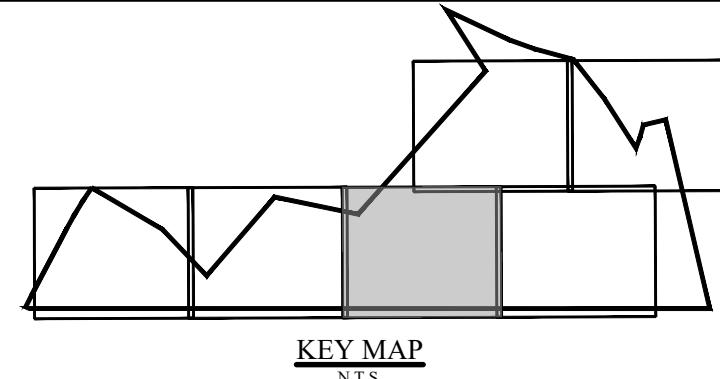
MATCHLINE SEE SHEET C-400

MATCHLINE SEE SHEET C-402



NOTES:
1. REFER TO SHEET C-000 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. REFER TO SHEET C-406 DRAINAGE TABLE FOR RIM AND INVERT ELEVATIONS.
3. GRADING SHOWN IS FOR COORDINATION PURPOSES ONLY. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR FINAL SITE GRADING.
4. ALL PIPES TO BE 12" CPP UNLESS OTHERWISE NOTED.
5. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PERIMETER AND INTERIOR WALL DRAINS.
6. LOCATION OF UNDER-SLAB DRAINAGE PIPES MAY BE ADJUSTED IN THE FIELD AS NEEDED. IF ADJUSTMENT IS MORE THAN 2 FEET, THE GEOTECHNICAL ENGINEER MUST BE NOTIFIED TO REVIEW NEW LOCATION.
7. REFER TO SHEETS C-500 THRU C-505 FOR INFORMATION CONCERNING THE WATER, SEWER, AND OTHER UTILITIES.

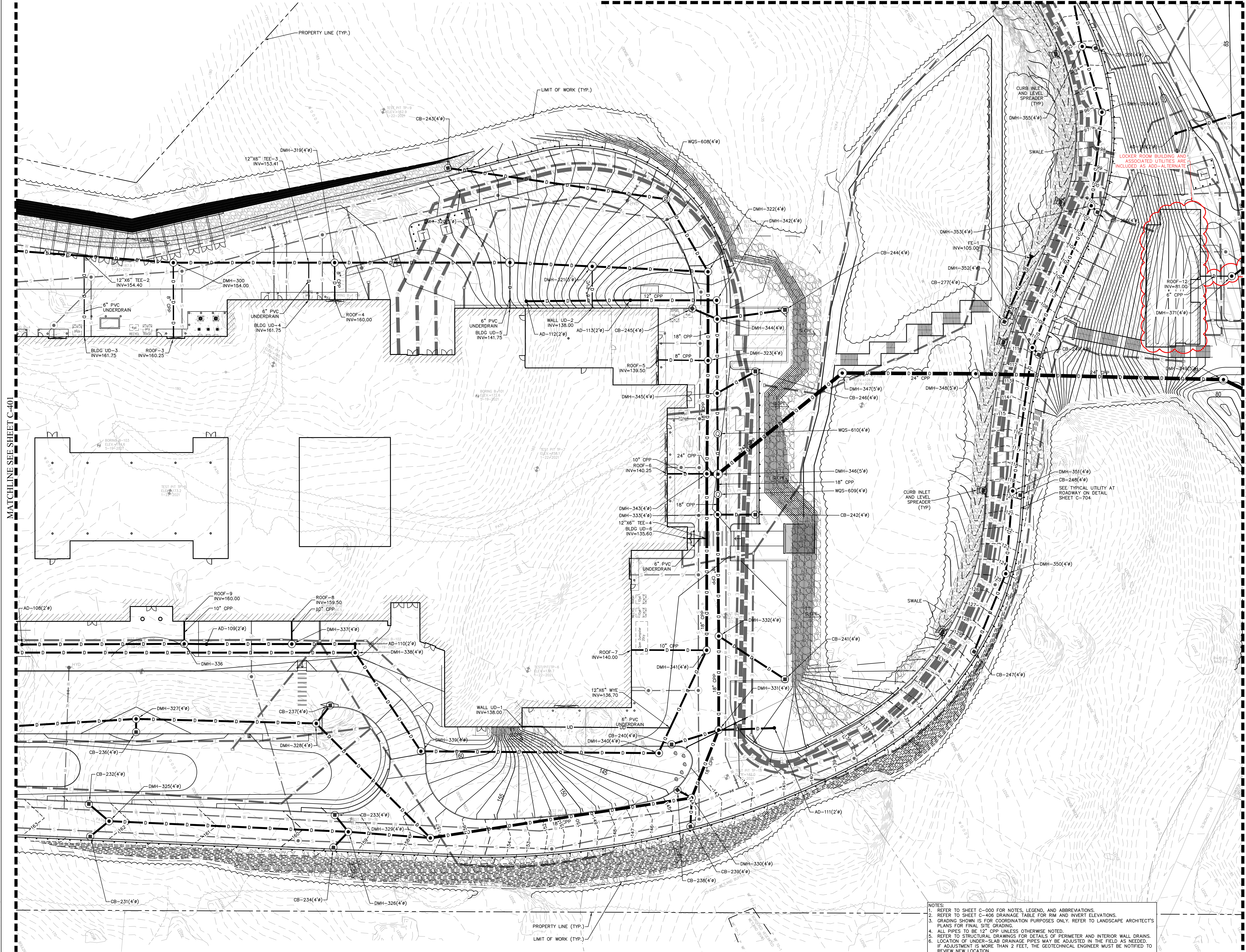
SCALE:
1" = 20'
20' 10' 0' 20' 40'



MATCHLINE SEE SHEET C-404

MATCHLINE SEE SHEET C-401

MATCHLINE SEE SHEET C-403



- NOTES:
1. REFER TO SHEET C-000 FOR NOTES, LEGEND, AND ABBREVIATIONS.
 2. REFER TO SHEET C-406 DRAINAGE TABLE FOR RIM AND INVERT ELEVATIONS.
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 4. ALL PIPES TO BE 12" CPP UNLESS OTHERWISE NOTED.
 5. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PERIMETER AND INTERIOR WALL DRAINS.
 6. LOCATION OF UNDER-SLAB DRAINAGE PIPES MAY BE ADJUSTED IN THE FIELD AS NEEDED. IF ADJUSTMENT IS MORE THAN 2 FEET, THE GEOTECHNICAL ENGINEER MUST BE NOTIFIED TO REVIEW NEW LOCATION.
 7. REFER TO SHEETS C-500 THRU C-505 FOR INFORMATION CONCERNING THE WATER, SEWER, AND OTHER UTILITIES.
 8. REFER TO LANDSCAPE DRAWINGS FOR DETAILS ON THE LOCKER ROOM BUILDING ADD ALTERNATIVE.

SCALE:
1" = 20'
20 10 0 10 20 40

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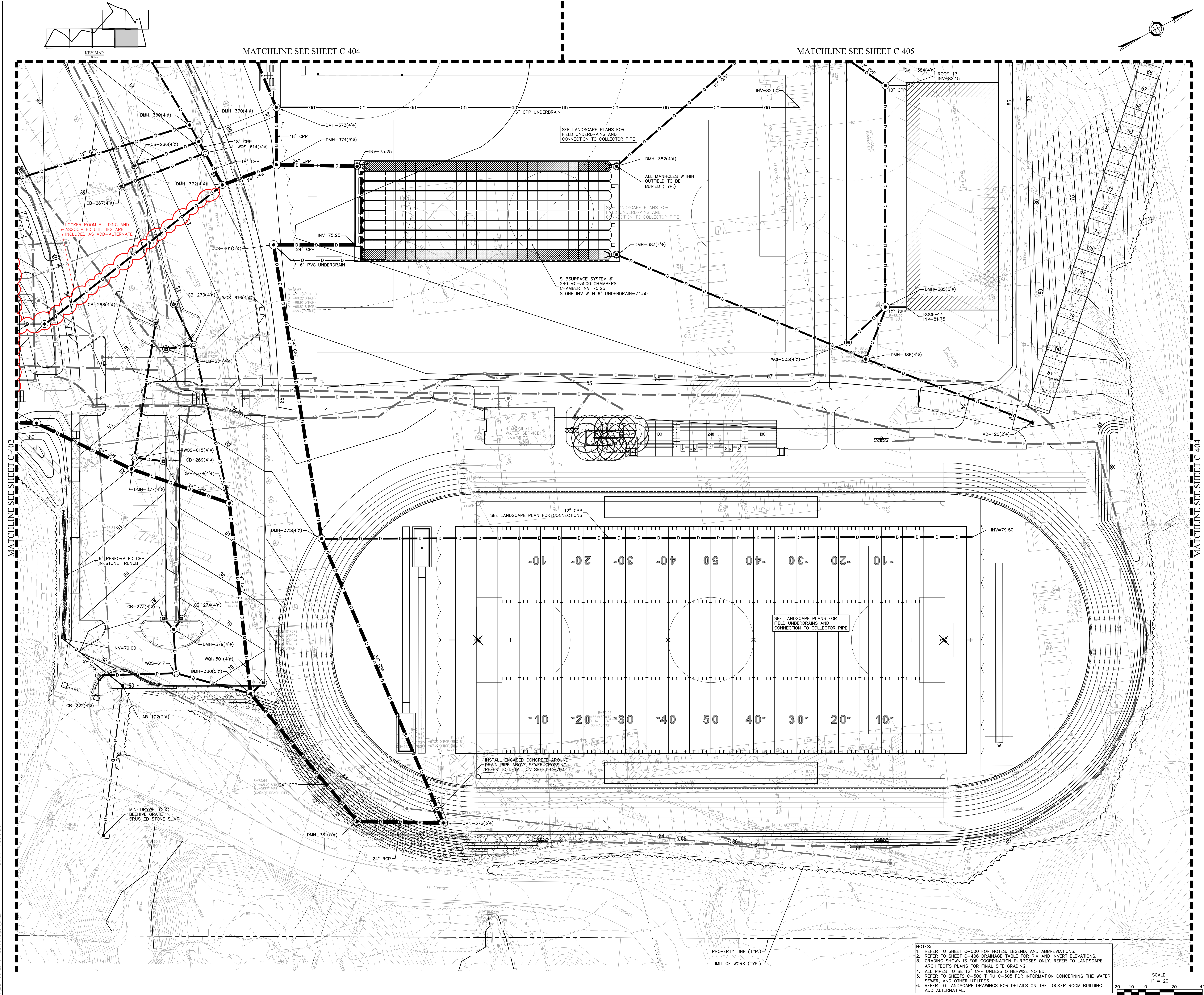
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JANUARY 13, 2023

DRAINAGE PLAN III

Scale: AS NOTED
Job No.: 13872
Drawn By: WVL
Date: JANUARY 13, 2023

C-402



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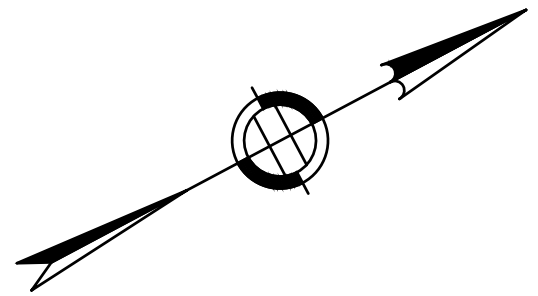
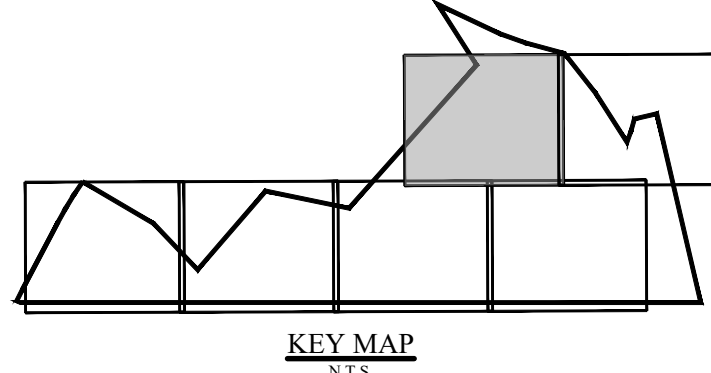
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DRAINAGE PLAN IV

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-403



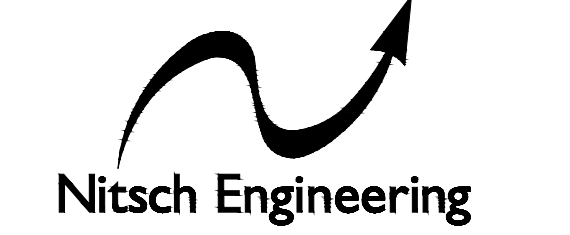
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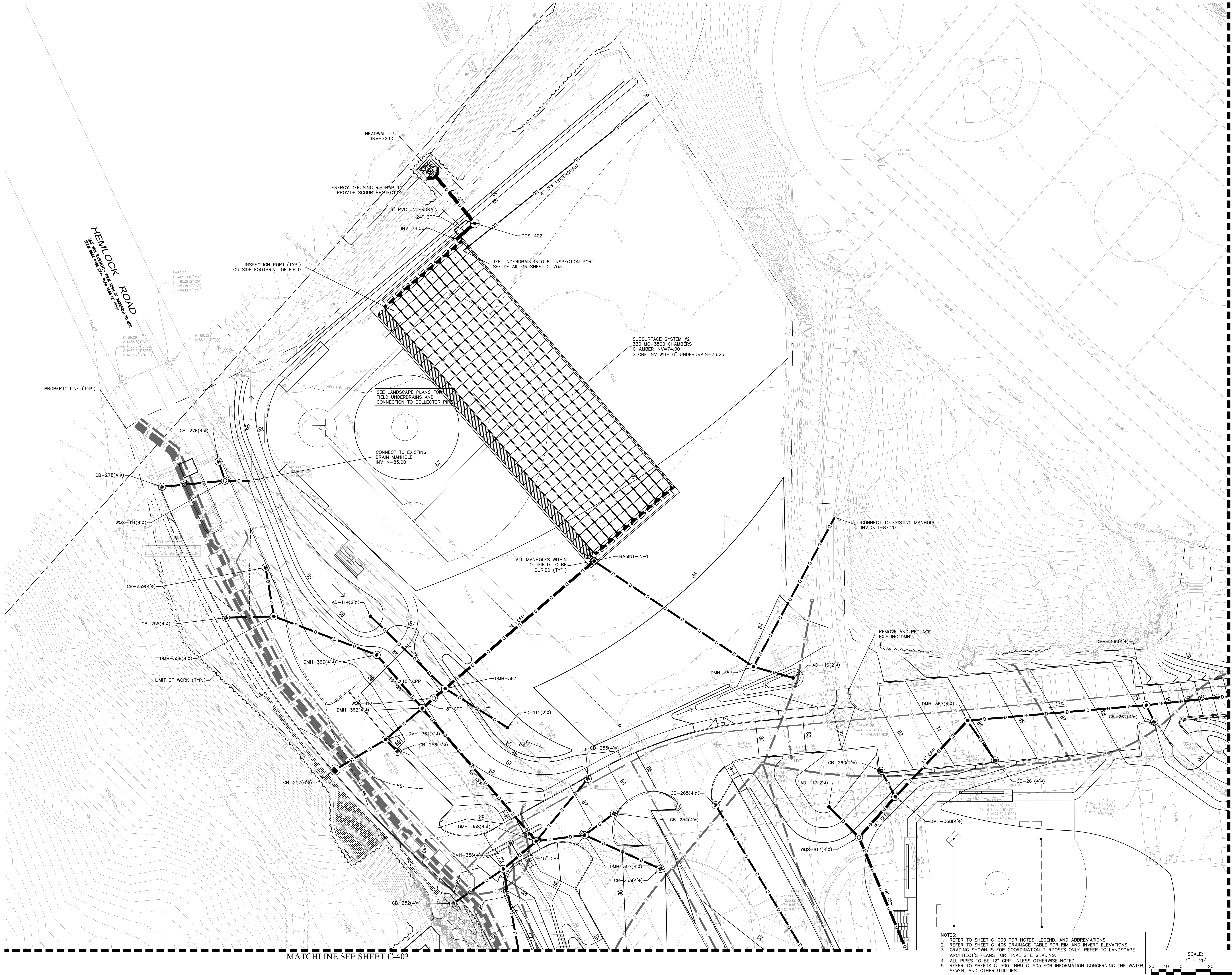
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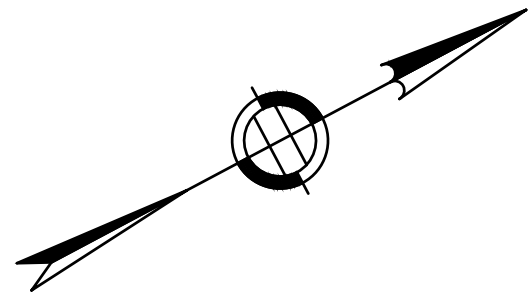
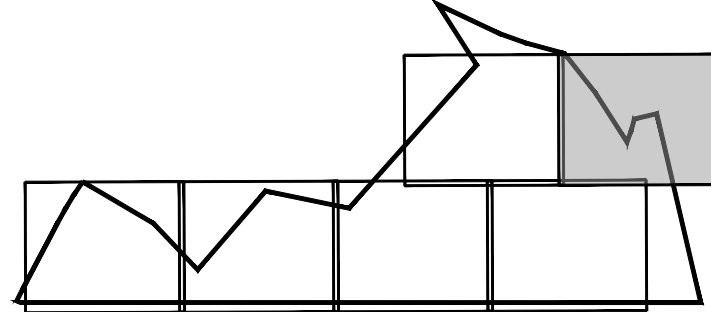
JANUARY 13, 2023

DRAINAGE PLAN V

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-404



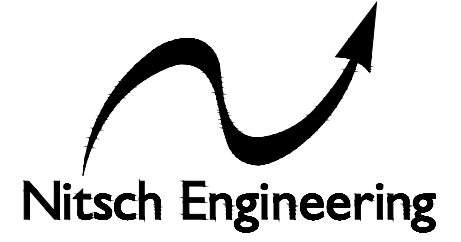


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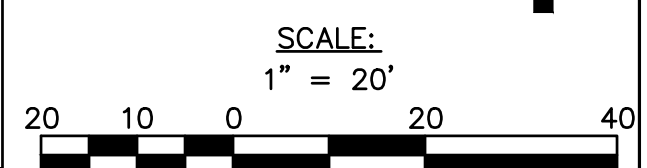
DRAINAGE PLAN VI

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-405



- NOTES:
1. REFER TO SHEET C-000 FOR NOTES, LEGEND, AND ABBREVIATIONS.
 2. REFER TO SHEET C-406 DRAINAGE TABLE FOR RIM AND INVERT ELEVATIONS.
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STORM DRAINAGE - INVERT TABLE				
STRUCTURE	INV IN	INV OUT	RIM	
12"x6" TEE-1	155.33 (DMH-317) 155.65 (BLDG UD-1)	155.33 (DMH-318)	155.50	
12"x6" TEE-2	154.40 (DMH-318) 154.40 (BLDG UD-3)	154.40 (DMH-300)	155.56	
12"x6" TEE-3	153.41 (DMH-300) 153.41 (BLDG UD-4)	153.41 (DMH-319)	154.58	
12"x6" TEE-4	134.87 (DMH-341) 136.70 (BLDG UD-6)	134.87 (DMH-343)	136.59	
12"x6" WYE	136.70 (DMH-340) 136.70 (WALL UD-1)	136.70 (DMH-341)	137.86	
AB-100	161.53 (BLDG UD-2)	161.53 (DMH-335)	162.70	
AB-101	159.20 (ROOF-11)	159.20 (WYE CONNECTION)	165.30	
AB-102	78.50 (ST-OUT)	78.40 (MINI DRYWELL)	80.10	
AD-101		127.50 (LS-3)	129.00	
AD-102		159.00 (DMH-310)	160.80	
AD-103		159.00 (DMH-314)	163.00	
AD-104		158.50 (AD-105)	162.50	
AD-105	157.60 (AD-104)	159.45 (AD-106)	162.45	
AD-106	159.00 (AD-105)	158.90 (WQS-618)	162.40	
AD-107		158.65 (DMH-335)	161.15	
AD-108		158.65 (DMH-336)	161.15	
AD-109	156.00 (DMH-336)	155.90 (DMH-337)	161.50	
AD-110	155.00 (DMH-337)	154.90 (DMH-338)	161.50	

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
AD-111		138.00 (DMH-331)	142.00
AD-112		139.50 (AD-113)	143.00
AD-113	139.10 (AD-112)	139.00 (DMH-342)	143.25
AD-114		81.00 (DMH-363)	85.00
AD-115		80.00 (DMH-363)	83.00
AD-116		77.60 (DMH-387)	81.00
AD-117		79.00 (WQS-613)	82.50
AD-118		80.00 (DMH-369)	82.50
AD-119		80.50 (DMH-382)	84.50
AD-120		78.90 (DMH-386)	82.90
BASIN1-IN-1	76.25 (DMH-363) 76.00 (DMH-387)		85.60
BASIN1-OUT		75.25 (OCS-401)	77.52
BASIN2-IN-1	75.25 (DMH-374)		80.07
BASIN2-OUT		74.00 (OCS-402)	76.27
BASIN3-IN-1	150.00 (WQS-606)		158.20
BASIN3-IN-2	152.00 (WQS-607)		156.02
BASIN3-IN-3	152.00 (WQS-604)		161.50
BASIN3-IN-4	152.00 (WQS-605)		161.80

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
BASIN3-OUT		150.75 (OCS-403)	151.91
BASIN4-IN-1	127.00 (WQS-601)		132.60
BASIN4-IN-2	127.50 (WQS-602)		135.70
BASIN4-OUT		127.00 (OCS-404)	127.93
BASIN5-IN-1	135.00 (WQS-603)		144.36
BASIN5-OUT		134.00 (OCS-405)	135.16
BLDG UD-1		161.75 (12"x6" TEE-1)	162.29
BLDG UD-2		161.75 (AB-100)	162.29
BLDG UD-3	161.75 (12"x6" TEE-2)		-2.97
BLDG UD-4	161.75 (12"x6" TEE-3)		158.79
BLDG UD-5	141.75 (DMH-320)		138.54
BLDG UD-6	135.60 (12"x6" TEE-4)		136.14
CB-201		130.25 (DMH-301)	132.82
CB-202		130.30 (DMH-301)	133.03
CB-203		127.50 (DMH-302)	130.50
CB-204		127.50 (DMH-302)	130.50
CB-205		128.90 (DMH-303)	137.66
CB-206		128.80 (DMH-303)	137.60

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB-207		140.20 (DMH-304)	144.50
CB-208		140.30 (DMH-304)	144.57
CB-209		145.70 (DMH-305)	150.30
CB-210		145.85 (DMH-305)	150.72
CB-211		154.00 (DMH-306)	156.50
CB-212		153.75 (DMH-306)	156.10
CB-213		154.25 (DMH-306)	156.44
CB-214		155.65 (DMH-308)	160.96
CB-215		155.80 (DMH-308)	160.96
CB-216		152.50 (DMH-312)	154.80
CB-217		152.00 (DMH-312)	155.50
CB-218		152.55 (DMH-313)	156.82
CB-219		152.85 (DMH-313)	158.20
CB-220		153.00 (DMH-309)	157.05
CB-221		152.50 (DMH-309)	157.00
CB-222		154.75 (DMH-309)	158.75
CB-223		154.75 (DMH-311)	158.75
CB-224		158.10 (DMH-310)	162.10

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB-225		158.80 (DMH-310)	162.80
CB-226		156.50 (DMH-311)	160.50
CB-227		156.50 (DMH-311)	160.50
CB-228		159.00 (DMH-314)	162.70
CB-229		158.00 (DMH-315)	162.00
CB-230		157.50 (DMH-316)	161.50
CB-231		158.00 (DMH-325)	162.00
CB-232		158.00 (DMH-325)	162.00
CB-233		155.30 (DMH-326)	159.30
CB-234		155.30 (DMH-326)	159.30
CB-235		157.25 (DMH-327)	161.25
CB-236		157.25 (DMH-327)	161.20
CB-237		158.00 (DMH-328)	162.00
CB-238		140.10 (DMH-330)	144.10
CB-239		139.00 (DMH-330)	144.00
CB-240		138.25 (DMH-331)	142.85
CB-241		138.20 (DMH-332)	142.20
CB-242		138.50 (DMH-333)	142.50

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB-243		149.75 (WQS-608)	153.75
CB-244		138.90 (DMH-344)	142.90
CB-245		138.30 (DMH-344)	143.10
CB-246		138.75 (DMH-345)	142.75
CB-247		125.50 (DMH-350)	129.50
CB-248		116.00 (DMH-351)	119.76
CB-249		107.10 (DMH-352)	110.88
CB-250		97.55 (DMH-353)	101.40
CB-251		89.40 (DMH-355)	93.29
CB-252		85.00 (DMH-356)	89.50
CB-253		81.85 (DMH-357)	85.00
CB-254		82.55 (DMH-357)	86.55
CB-255		82.80 (DMH-358)	86.50
CB-256		83.50 (DMH-361)	87.52
CB-257		83.50 (DMH-361)	87.82
CB-258		85.50 (DMH-359)	88.84
CB-259		85.50 (DMH-359)	88.76
CB-260		78.70 (DMH-368)	82.30

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB-261		81.00 (DMH-367)	85.00
CB-262		85.40 (DMH-366)	89.40
CB-263		95.30 (DMH-365)	99.80
CB-264		95.50 (DMH-365)	99.87
CB-265		80.50 (DMH-369)	84.00
CB-266		78.80 (DMH-370)	82.30
CB-267		78.90 (WQS-614)	82.40
CB-268		78.05 (WQS-615)	82.05
CB-269		77.75 (WQS-615)	81.75
CB-270		78.25 (WQS-616)	81.75
CB-271		78.30 (WQS-616)	82.30
CB-272		76.00 (WQS-617)	80.50
CB-273		74.50 (DMH-379)	78.50
CB-274		74.50 (DMH-379)	78.50
CB-275		86.60 (WQS-611)	90.74
CB-276		85.60 (WQS-611)	90.05
CB-277		106.00 (FE-1)	109.00
DMH-300	154.00 (ROOF-3) 154.00 (12"x6" TEE-2)	154.00 (12"x6" TEE-3)	162.40

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
DMH-301	130.00 (CB-201) 130.00 (CB-202)	128.65 (DMH-302)	132.90
DMH-302	127.95 (DMH-301) 127.95 (CB-204) 127.95 (CB-205)	127.95 (WQS-601)	131.15
DMH-303	128.50 (CB-206) 128.50 (CB-205)	128.50 (WQS-602)	137.33
DMH-304	140.00 (CB-207) 140.00 (CB-208) 136.00 (DMH-305)	135.45 (WQS-603)	145.24
DMH-305	145.50 (CB-209) 145.50 (CB-210)	145.00 (DMH-304)	150.56
DMH-306	153.35 (CB-211) 153.35 (CB-213) 153.35 (CB-212)	153.35 (WQS-604)	158.00
DMH-308	155.00 (CB-214) 155.50 (CB-215)	153.90 (WQS-605)	160.74
DMH-309	152.50 (CB-220) 152.10 (CB-221) 154.00 (CB-222)	150.35 (WQS-606)	157.80
DMH-310	158.25 (CB-225) 157.80 (CB-224) 157.10 (AD-102)	157.10 (DMH-311)	162.70
DMH-311	154.40 (DMH-310) 154.40 (CB-223) 155.50 (CB-226) 156.00 (CB-227)	152.40 (WQS-607)	159.40
DMH-312	151.50 (CB-216) 151.50 (CB-217) 151.50 (DMH-313)	151.25 (WQS-606)	156.90
DMH-313	151.95 (CB-219) 151.95 (CB-218)	151.95 (DMH-312)	156.90
DMH-314	158.15 (CB-228) 158.60 (AD-103)	158.15 (DMH-315)	163.00
DMH-315	156.90 (DMH-314) 157.90 (CB-229)	156.90 (DMH-316)	161.95
DMH-316	156.70 (DMH-315) 157.30 (CB-230)	156.70 (WQS-607)	161.70
DMH-317	158.85 (ROOF-1)	155.90 (12"x6" TEE-1)	163.50
DMH-318	155.00 (12"x6" TEE-1) 156.00 (ROOF-2)	154.90 (12"x6" TEE-2)	162.50
DMH-319	153.30 (12"x6" TEE-3) 156.00 (ROOF-4)	150.94 (DMH-320)	162.20

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
DMH-320	143.75 (DMH-319) 141.40 (BLDG UD-5)	141.40 (DMH-321)	158.40
DMH-321	140.30 (DMH-320) 137.75 (WALL UD-2)	137.75 (DMH-322)	149.50
DMH-322	136.60 (DMH-321) 127.50 (WQS-608)	136.20 (DMH-323)	144.77
DMH-323	135.60 (ROOF-5) 135.60 (DMH-322)	135.50 (DMH-343)	143.10
DMH-325	157.80 (CB-231) 157.80 (CB-232)	156.40 (DMH-326)	162.00
DMH-326	153.10 (DMH-325) 155.00 (CB-233) 155.00 (CB-234)	153.00 (DMH-329)	158.80
DMH-327	156.00 (CB-235) 157.00 (CB-236)	155.90 (DMH-328)	161.20
DMH-328	153.60 (DMH-327) 157.70 (CB-237)	153.50 (DMH-329)	162.20
DMH-329	150.50 (DMH-326) 152.50 (DMH-328)	147.00 (DMH-330)	157.40
DMH-330	139.80 (DMH-329) 139.80 (CB-238) 138.80 (CB-239)	138.30 (DMH-331)	143.80
DMH-331	138.00 (CB-240) 137.75 (AD-111) 137.35 (DMH-330)	137.25 (DMH-332)	142.00
DMH-332	137.50 (CB-241) 136.90 (DMH-331)	136.80 (DMH-333)	143.50
DMH-333	135.70 (DMH-332) 138.00 (CB-242)	135.60 (WQS-609)	143.00
DMH-335	161.35 (AB-100) 159.55 (ROOF-10) 158.60 (AD-107)	155.90 (DMH-338)	163.20
DMH-336	157.50 (AD-108) 158.50 (ROOF-9)	156.20 (AD-109)	163.20
DMH-337	155.50 (AD-109) 155.75 (ROOF-8)	155.40 (AD-110)	162.20
DMH-338	154.00 (DMH-335) 154.60 (AD-110)	153.90 (DMH-339)	162.30
DMH-339	153.00 (DMH-338)	145.50 (DMH-340)	161.10

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
DMH-340	138.70 (DMH-339)	136.90 (12"x6" WYE)	143.70
DMH-341	136.00 (12"x6" WYE) 136.20 (ROOF-7)	135.50 (12"x6" TEE-4)	142.80
DMH-342	138.30 (AD-113)	138.20 (DMH-344)	143.50
DMH-343	136.50 (ROOF-6) 135.10 (DMH-323) 134.50 (12"x6" TEE-4)	134.40 (DMH-346)	143.10
DMH-344	138.10 (DMH-342) 138.20 (CB-244) 138.10 (CB-245)	138.00 (DMH-345)	143.20
DMH-345	137.50 (DMH-344) 138.15 (CB-246)	137.40 (WQS-610)	143.00
DMH-346	135.00 (WQS-609) 134.30 (DMH-343) 136.60 (WQS-610)	134.20 (DMH-347)	143.00
DMH-347	120.10 (DMH-346)	120.00 (DMH-348)	128.80
DMH-348	108.10 (DMH-347)	108.00 (DMH-349)	114.10
DMH-349	76.10 (DMH-348)	76.00 (DMH-377)	82.50
DMH-350	120.70 (CB-247) 120.70 (DMH-351) 115.95 (CB-248)	120.70 (DMH-351)	124.51
DMH-351	115.95 (DMH-350) 115.95 (CB-248)	115.85 (DMH-352)	119.64
DMH-352	107.00 (DMH-351) 107.00 (CB-249)	106.90 (DMH-353)	110.68
DMH-353	97.50 (DMH-352) 97.50 (CB-250)	97.40 (DMH-354)	101.27
DMH-354	92.25 (DMH-353)	92.15 (DMH-355)	96.12
DMH-355	89.30 (DMH-354) 89.30 (CB-251)	89.20 (DMH-356)	93.21
DMH-356	84.00 (CB-252) 84.40 (DMH-355)	80.95 (DMH-358)	89.00
DMH-357	81.00 (CB-253) 82.40 (CB-254)	81.00 (DMH-358)	87.00

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
DMH-358	80.50 (DMH-356)	80.50 (DMH-362)	88.00
	80.50 (DMH-357)		
	82.00 (CB-255)		
DMH-359	85.10 (CB-259)	85.00 (DMH-360)	88.64
	85.20 (CB-258)		
DMH-360	84.10 (DMH-359)	79.00 (DMH-362)	86.37
DMH-361	83.00 (CB-257)	82.90 (DMH-362)	87.47
	83.40 (CB-256)		
DMH-362	78.60 (DMH-360)	78.45 (WGS-612)	88.10
	78.70 (DMH-358)		
	82.00 (DMH-361)		
DMH-363	78.15 (WGS-612)	78.15 (BASIN1-IN-1)	87.90
	79.00 (AD-115)		
	80.40 (AD-114)		
DMH-365	95.00 (CB-263)	90.00 (DMH-366)	99.00
	95.00 (CB-264)		
DMH-366	85.30 (CB-262)	85.20 (DMH-367)	89.30
	85.30 (CB-262)		
DMH-367	80.70 (DMH-366)	80.25 (DMH-368)	84.90
	80.25 (CB-261)		
DMH-368	79.00 (DMH-367)	79.00 (WGS-613)	85.50
	79.00 (CB-260)		
DMH-369	78.75 (CB-265)	78.65 (DMH-370)	84.30
	78.75 (AD-118)		
DMH-370	78.55 (DMH-369)	78.05 (WGS-614)	84.30
	78.55 (CB-266)		
DMH-371	80.80 (ROOF-12)	80.70 (DMH-372)	84.50
DMH-372	78.00 (DMH-371)	77.00 (DMH-374)	84.10
	77.50 (WGS-614)		
DMH-373	82.50 (UD-1)	77.50 (DMH-374)	86.50
	77.50 (WGS-613)		
DMH-374	76.70 (DMH-372)	76.20 (BASIN2-IN-1)	86.00
	76.80 (DMH-373)		
DMH-375	75.00 (UD-3)	72.40 (DMH-376)	83.20
	72.50 (OCS-401)		
DMH-376	70.20 (DMH-375)	64.70 (EX-HEADWALL-2)	83.40
	69.00 (DMH-381)		



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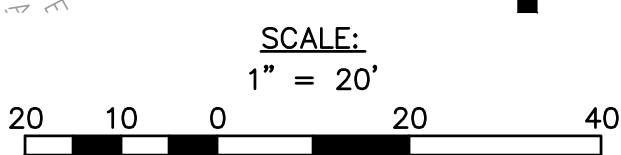
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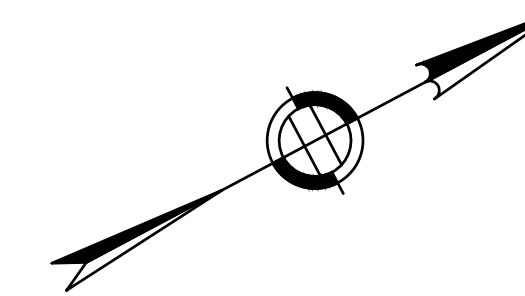
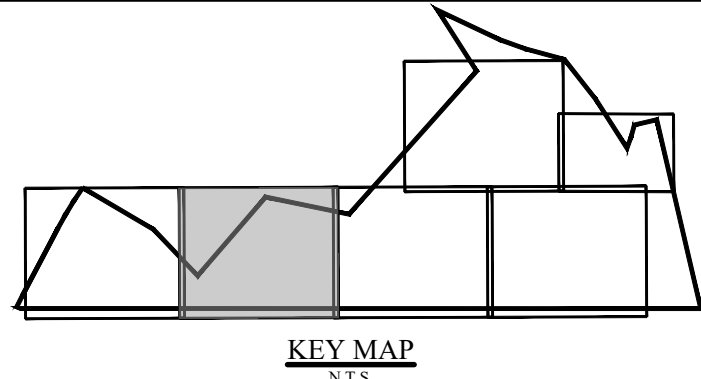
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UTILITY SITE PLAN

C-500





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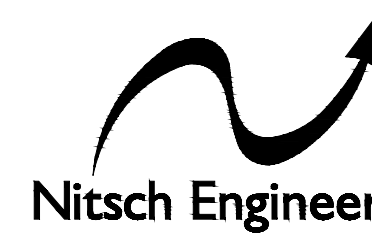
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JANUARY 13, 2023

UTILITY SITE PLAN II

Scale: AS NOTED
Job No.: 13872
Drawn By: WCL
Date: JANUARY 13, 2023

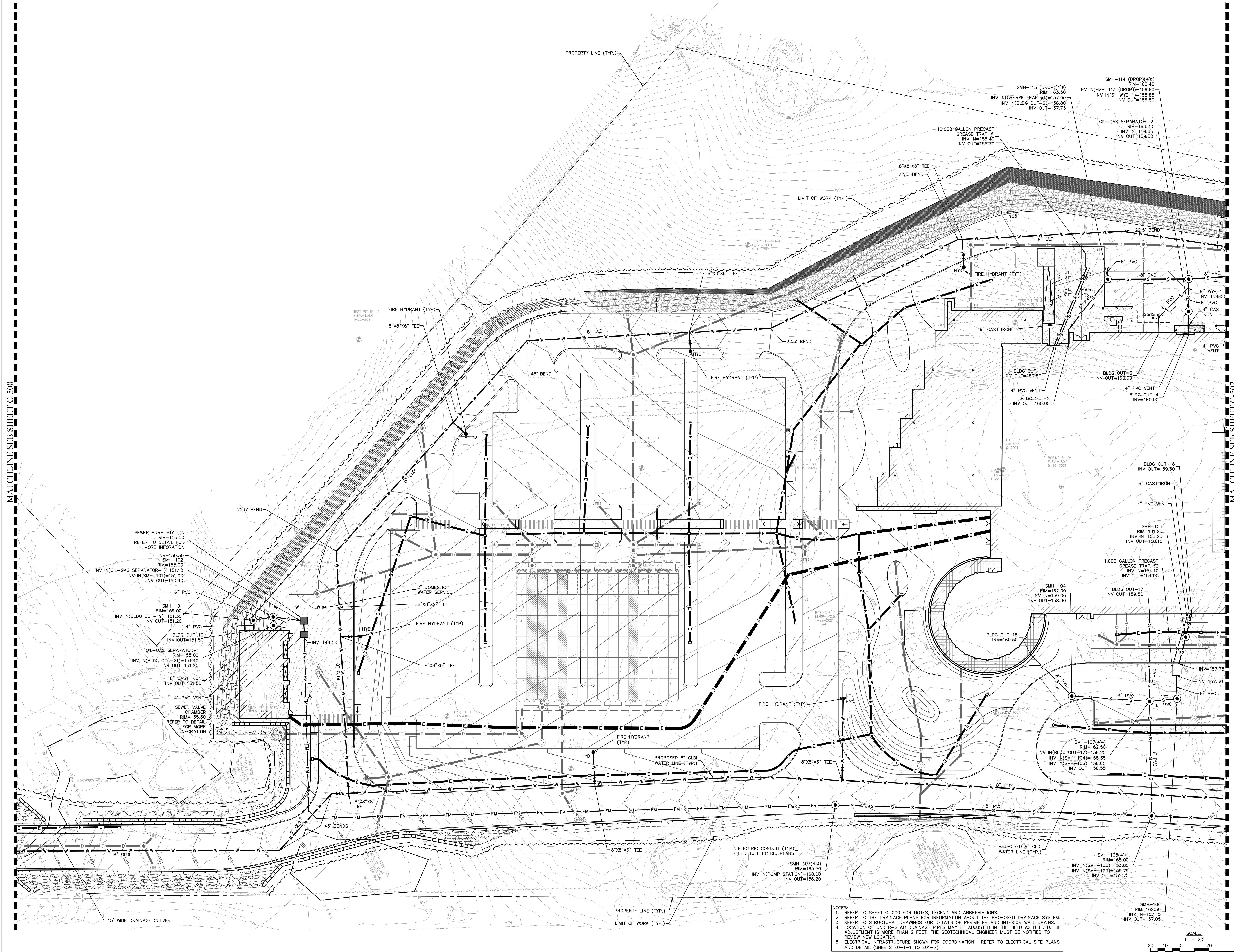
C-501

MATCHLINE SEE SHEET C-500

MATCHLINE SEE SHEET C-502

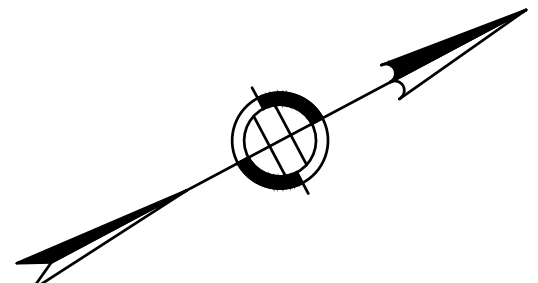
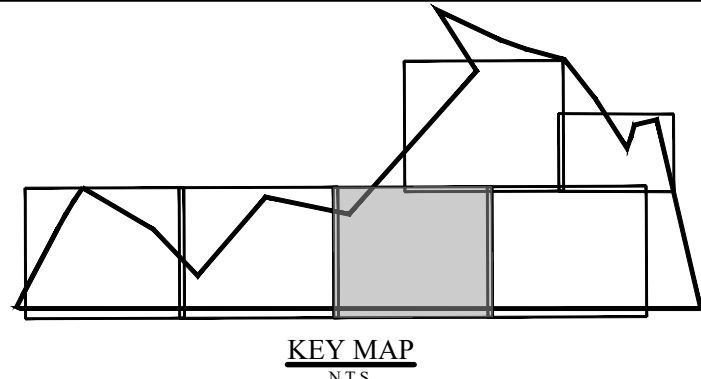
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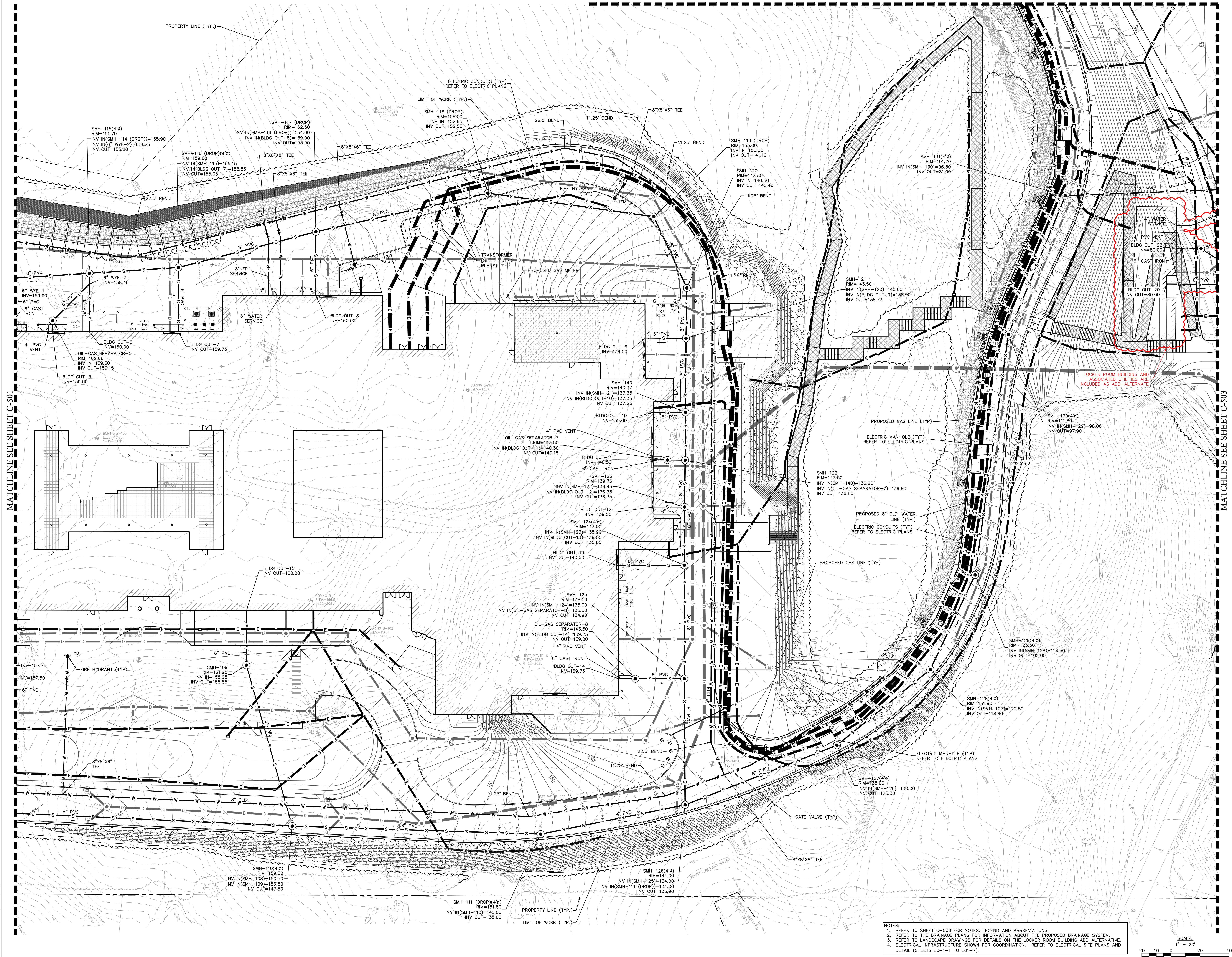


- NOTES:
1. REFER TO SHEET C-000 FOR NOTES, LEGEND AND ABBREVIATIONS.
 2. REFER TO THE DRAINAGE PLANS FOR INFORMATION ABOUT THE PROPOSED DRAINAGE SYSTEM.
 3. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PERIMETER AND INTERIOR WALL DRAINS.
 4. LOCATION OF UNDER-SLAB DRAINAGE PIPES MAY BE ADJUSTED IN THE FIELD AS NEEDED. IF ADJUSTMENT IS MORE THAN 2 FEET, THE GEOTECHNICAL ENGINEER MUST BE NOTIFIED TO REVIEW NEW LOCATION.
 5. ELECTRICAL INFRASTRUCTURE SHOWN FOR COORDINATION. REFER TO ELECTRICAL SITE PLANS AND DETAIL (SHEETS E0-1-1 TO E01-7).

SCALE:
1" = 20'
20 10 0 10 20 40



MATCHLINE SEE SHEET C-504



MATCHLINE SEE SHEET C-501

MATCHLINE SEE SHEET C-503

- NOTES:
1. REFER TO SHEET C-000 FOR NOTES, LEGEND AND ABBREVIATIONS.
 2. REFER TO THE DRAINAGE PLANS FOR INFORMATION ABOUT THE PROPOSED DRAINAGE SYSTEM.
 3. REFER TO LANDSCAPE DRAWINGS FOR DETAILS ON THE LOCKER ROOM BUILDING ADD ALTERNATIVE.
 4. ELECTRICAL INFRASTRUCTURE SHOWN FOR COORDINATION. REFER TO ELECTRICAL SITE PLANS AND DETAIL (SHEETS E0-1 TO E01-7).

SCALE:
1" = 20'

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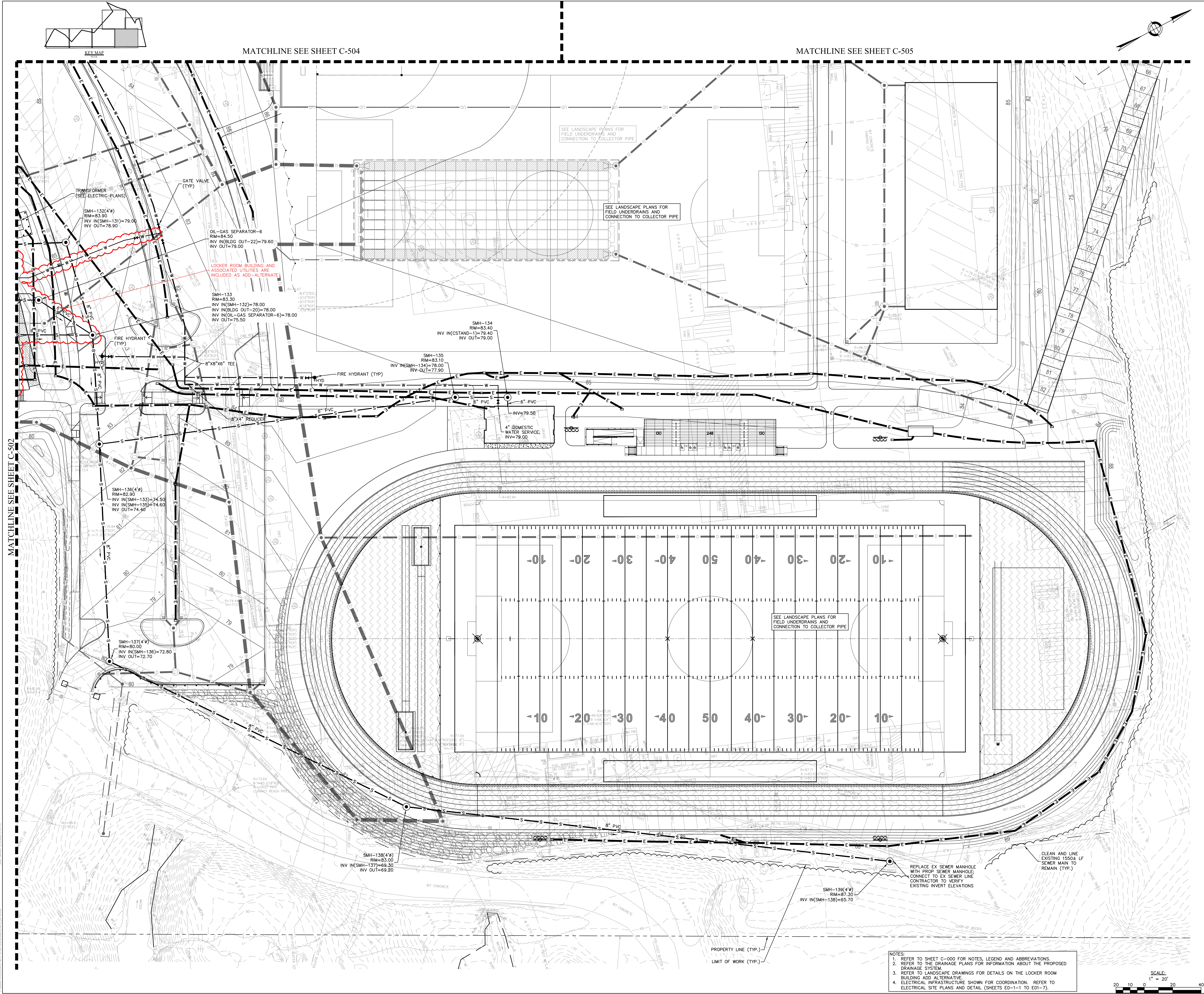
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PREPARATION
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JANUARY 13, 2023

**UTILITY SITE PLAN
III**

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-502



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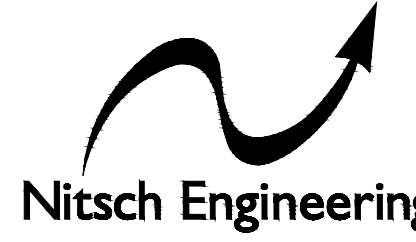
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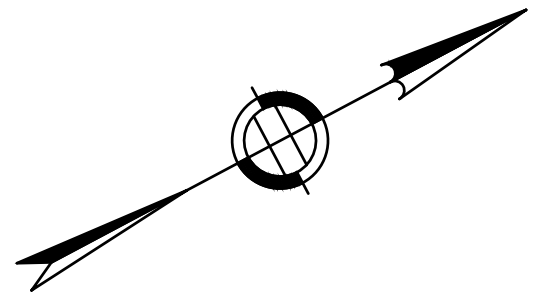
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JANUARY 13, 2023

UTILITY SITE PLAN
IV

Scale: AS NOTED
Job No.: 13872
Drawn By: WCL
Date: JANUARY 13, 2023

C-503



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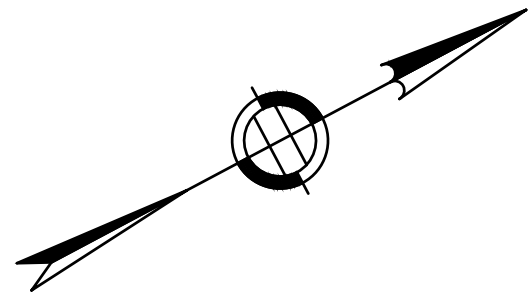
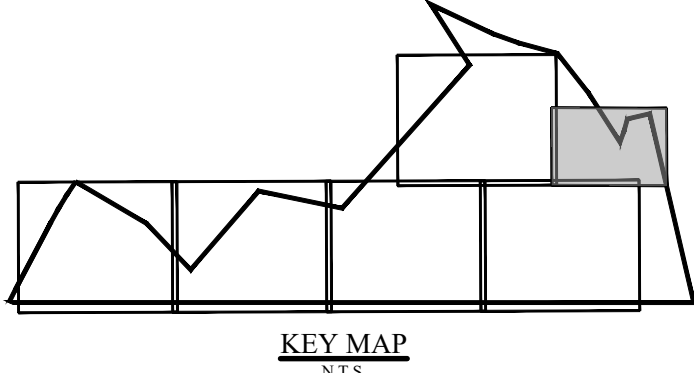
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UTILITY SITE PLAN

V

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2001

C-504

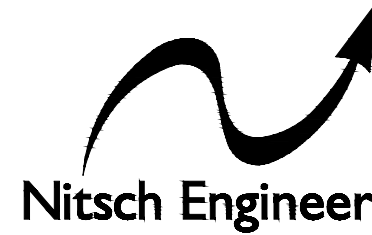


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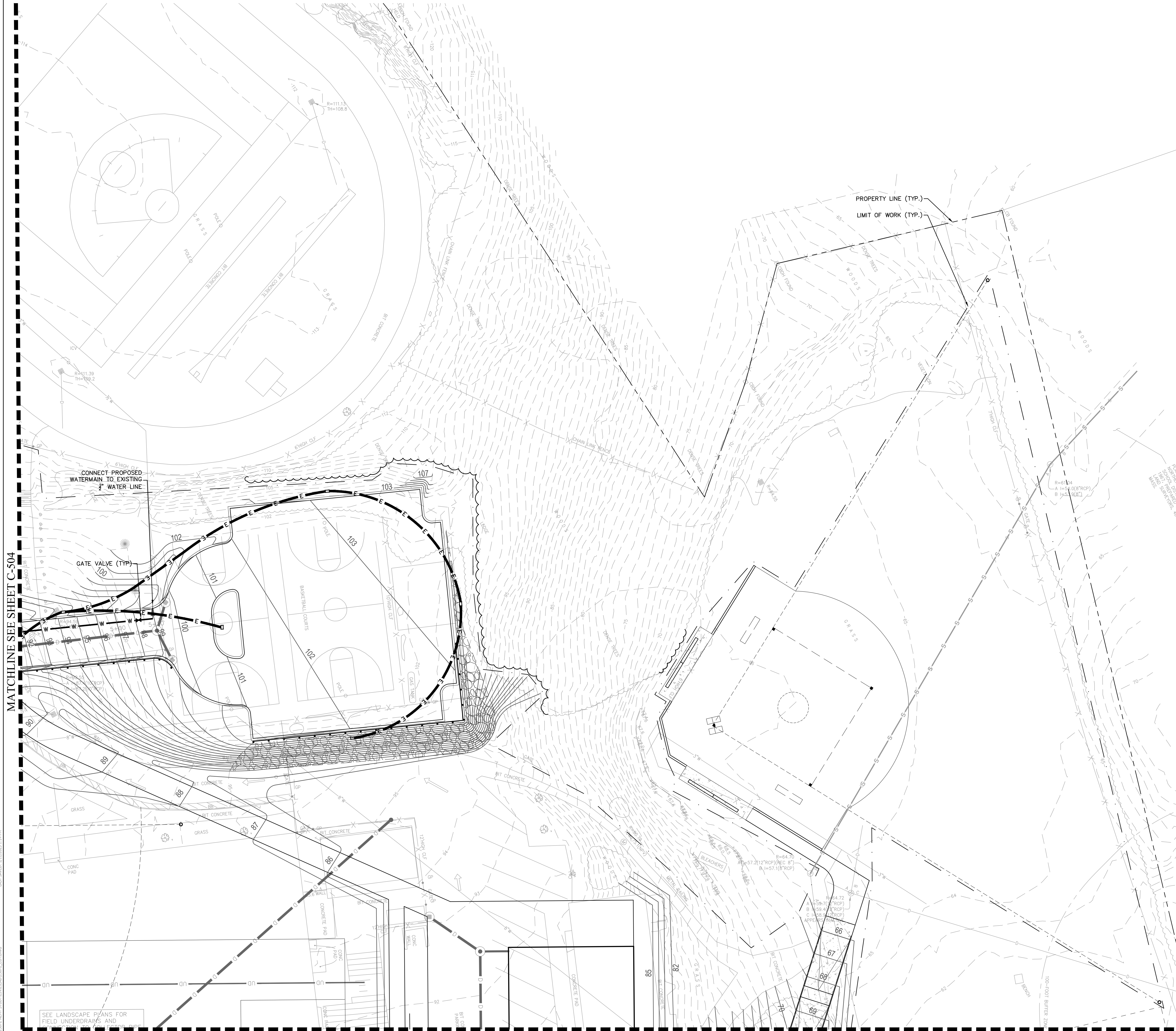
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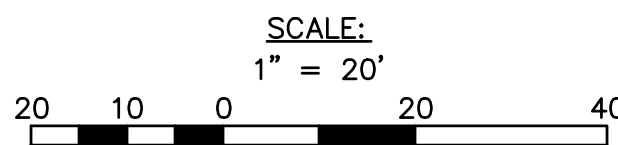
UTILITY SITE PLAN
VI

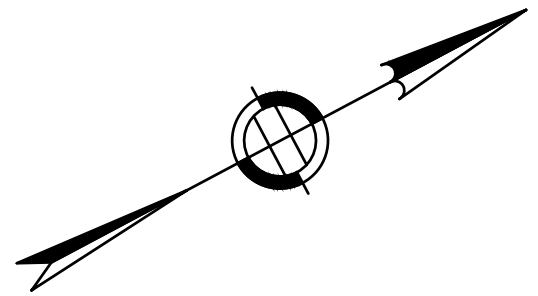
Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-505



- NOTES:
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 2. REFER TO THE DRAINAGE PLANS FOR INFORMATION ABOUT THE PROPOSED DRAINAGE SYSTEM.
 3. ELECTRICAL INFRASTRUCTURE SHOWN FOR COORDINATION. REFER TO ELECTRICAL SITE PLANS AND DETAIL (SHEETS E0-1-1 TO E01-7).





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JANUARY 13, 2023

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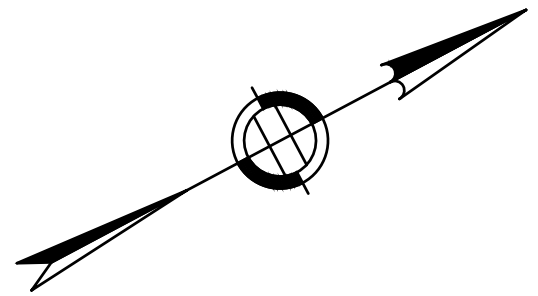
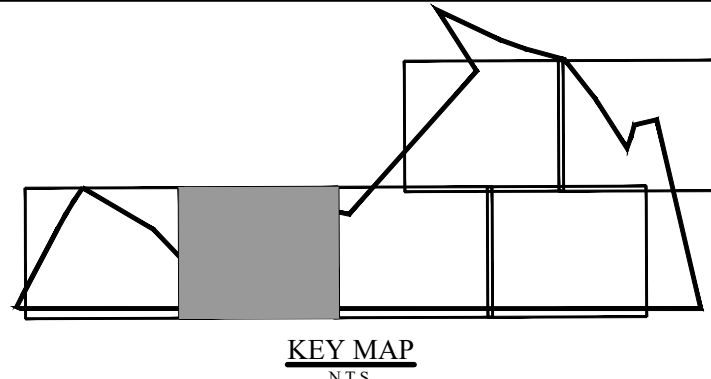
Job No.: 13872

Drawn By: WL

Date: JANUARY 13, 2001

C-600





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JANUARY 13, 2023

**DRIVEWAY
LAYOUT AND
GRADING PLAN II**

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-601

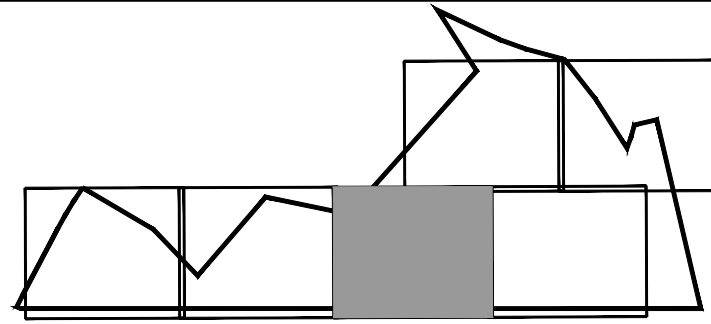
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MATCHLINE SEE SHEET C-602

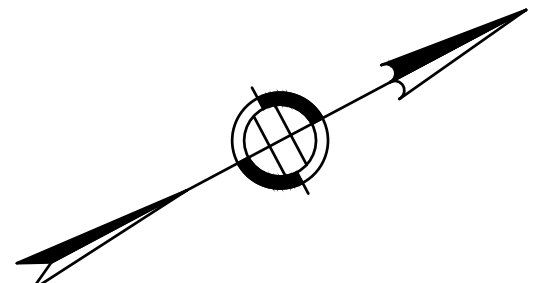
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NOTES:
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2. GRADING SHOWN OUTSIDE OF DRIVEWAY PROFILE IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR FINAL SITE GRADING.
3. REFER TO SHEETS C-400 THRU C-406 FOR INFORMATION CONCERNING THE STORMWATER MANAGEMENT SYSTEM.
4. REFER TO SHEETS C-500 THRU C-505 FOR INFORMATION CONCERNING THE WATER, SEWER, AND OTHER UTILITIES.

SCALE:
1" = 20'
20 10 0 10 20 40



KEY MAP
S13



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MATCHLINE SEE SHEET C-601

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- Green Infrastructure
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- GIS

NITSCH PROJECT No. 13872

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JANUARY 13, 2023

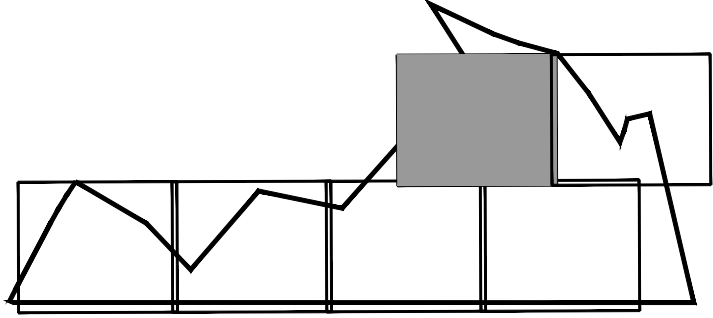
**DRIVEWAY
LAYOUT AND
GRADING PLAN III**

Scale: AS NOTED
Job No.: 13872
Drawn By: WCL
Date: JANUARY 13, 2023

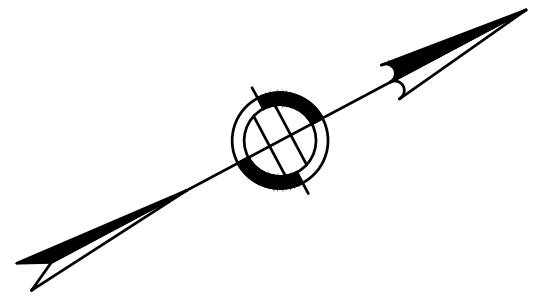
C-602

NOTES:
1. REFER TO SHEET C-600 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. GRADING SHOWN OUTSIDE OF DRIVEWAY PROFILE IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR FINAL SITE GRADING.
3. REFER TO SHEETS C-400 THRU C-406 FOR INFORMATION CONCERNING THE STORMWATER MANAGEMENT SYSTEM.
4. REFER TO SHEETS C-500 THRU C-505 FOR INFORMATION CONCERNING THE WATER, SEWER, AND OTHER UTILITIES.

SCALE:
1" = 20'
20 10 0 20 40



KEY MAP
S15

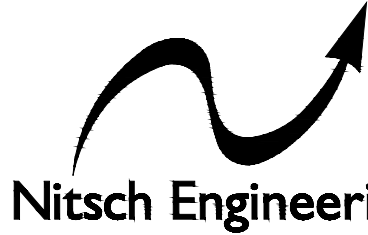


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JANUARY 13, 2023

**DRIVEWAY
LAYOUT AND
GRADING PLAN IV**

Scale: AS NOTED
Job No.: 13872
Drawn By: WIL
Date: JANUARY 13, 2023

C-603

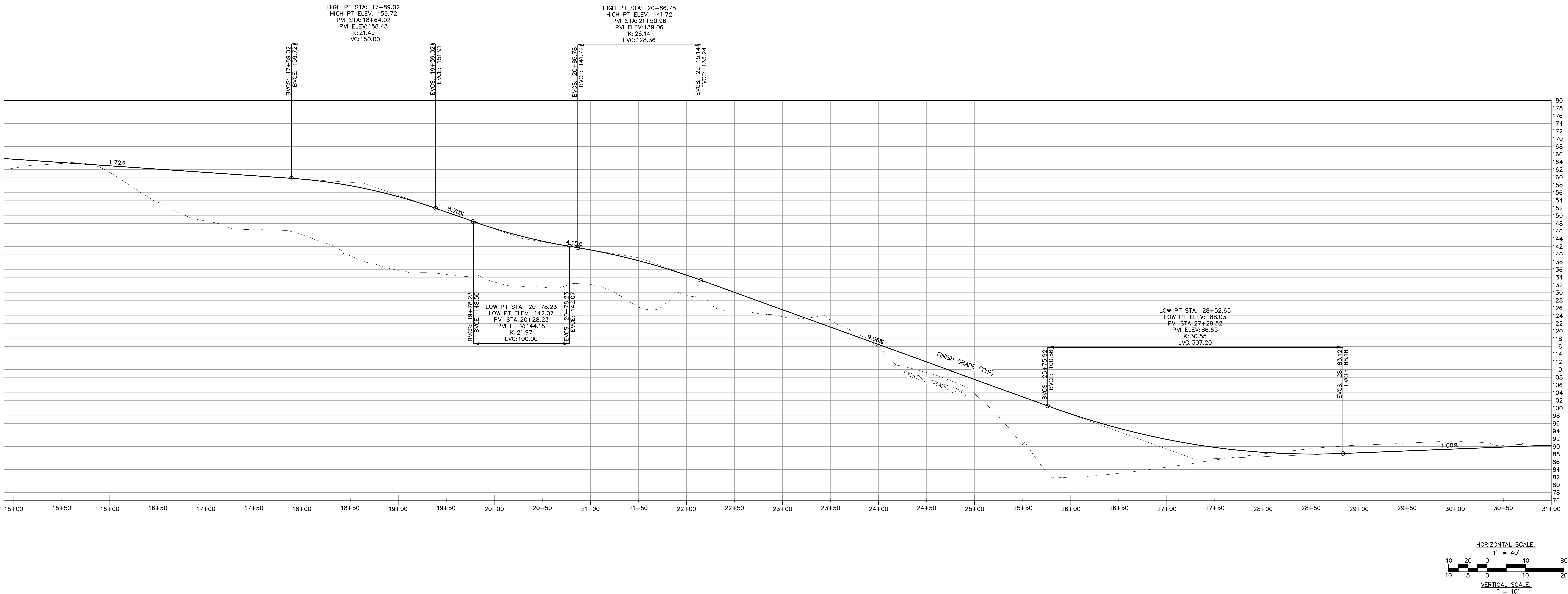
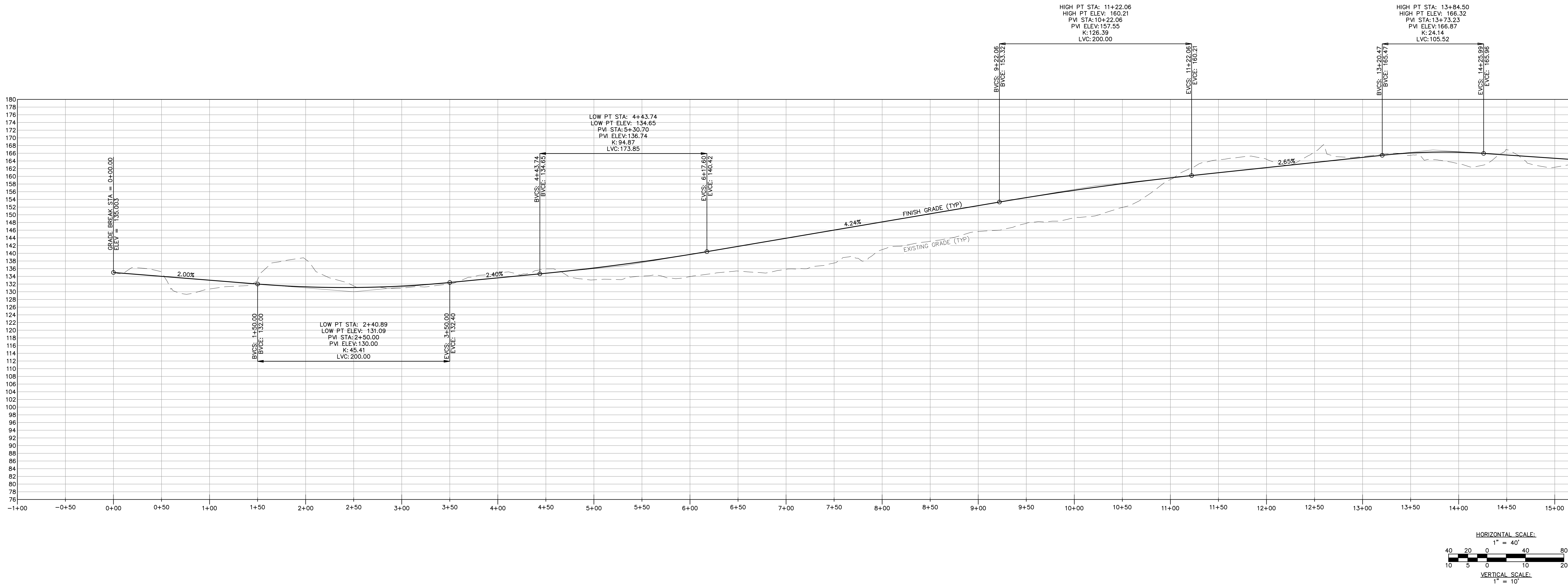


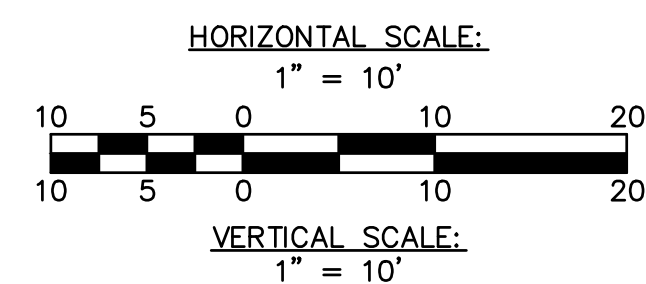
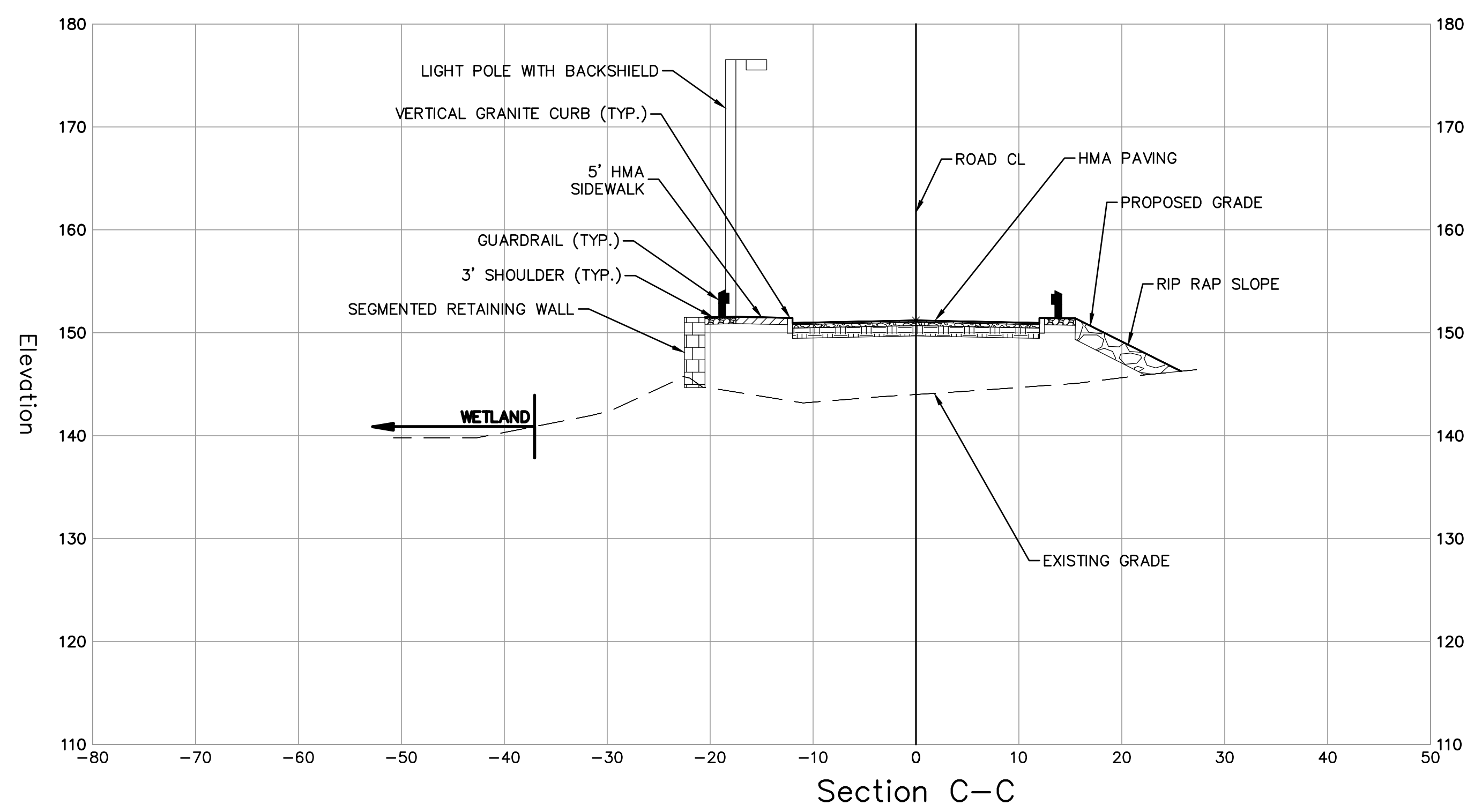
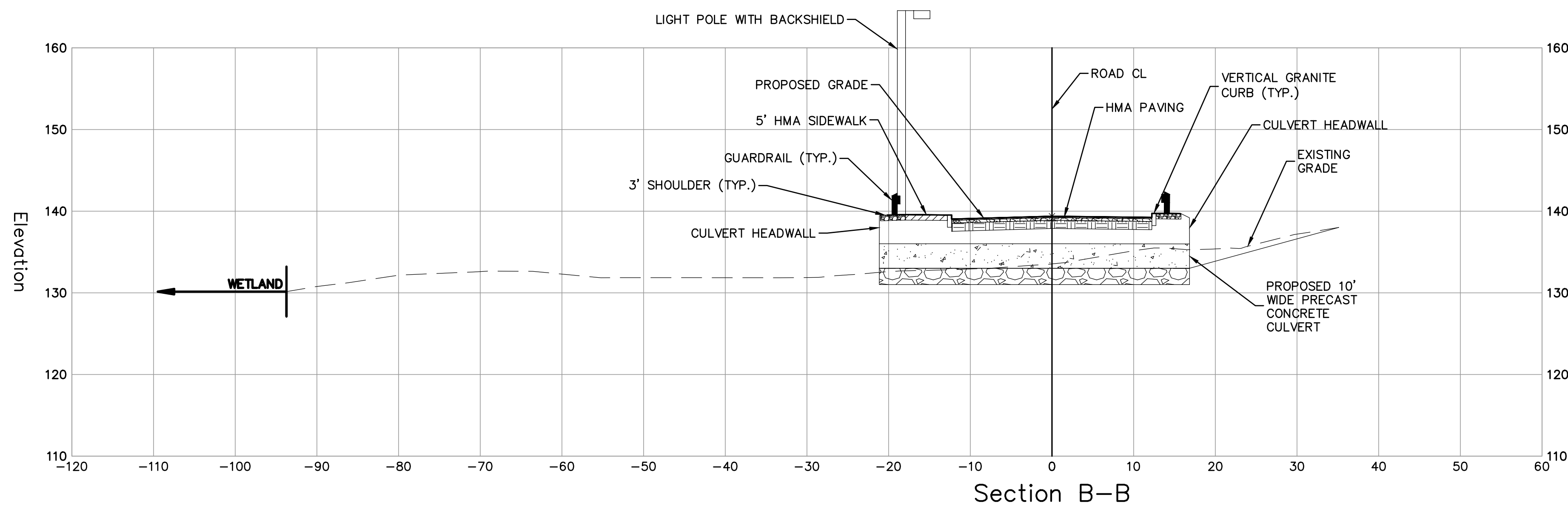
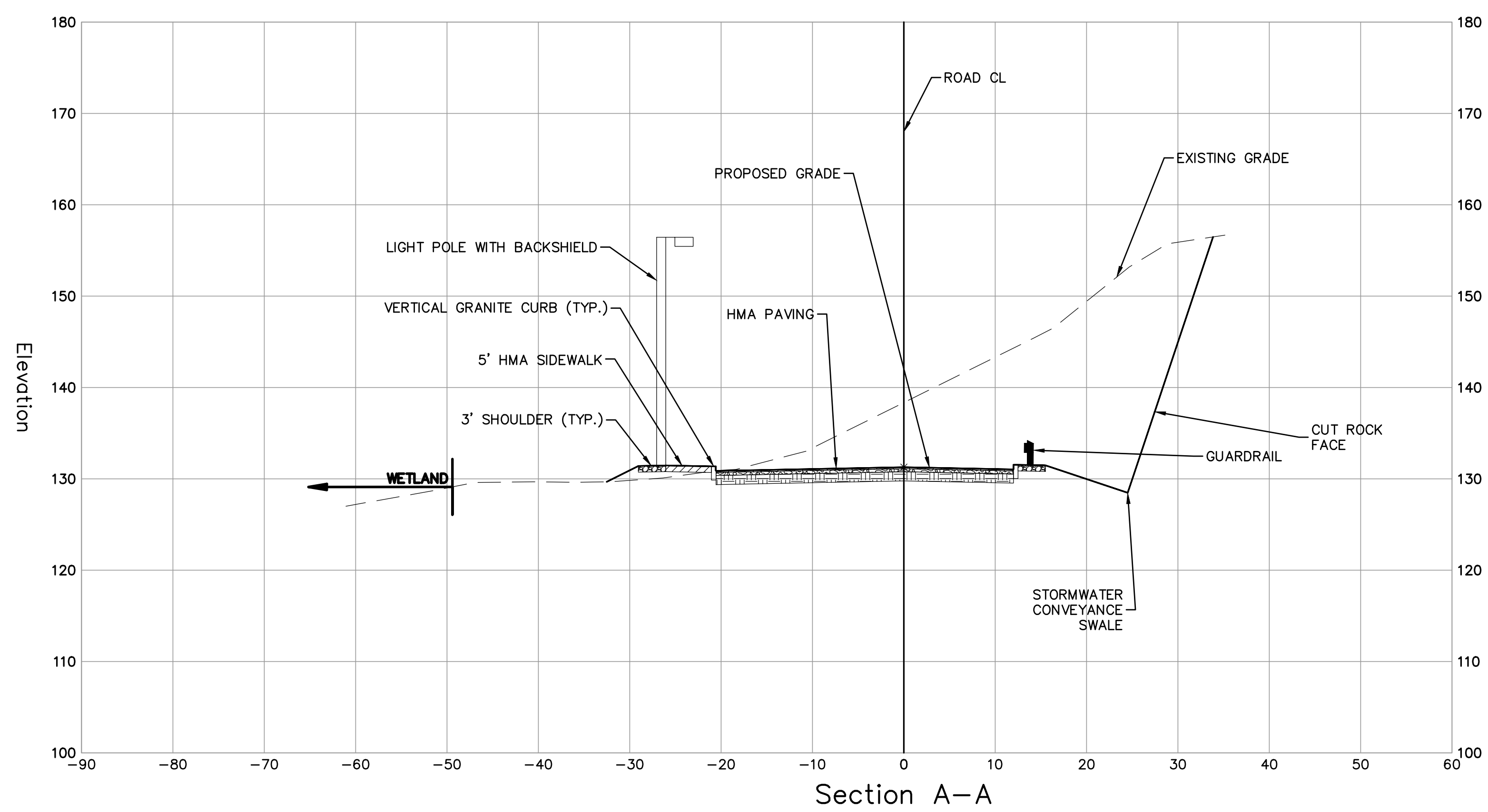
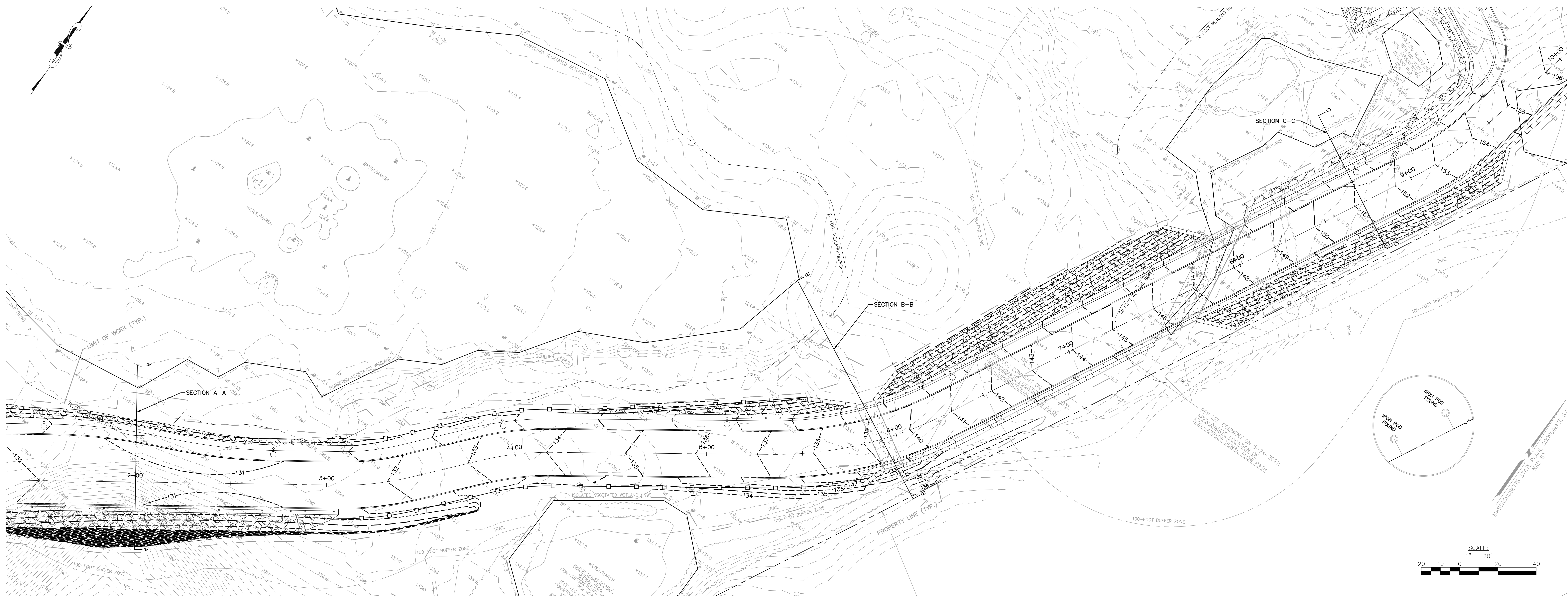
- NOTES:
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SCALE:
1" = 20'
20 10 0 20 40

MATCHLINE SEE SHEET C-602

PLANNED BY: DRUMREY ROSANE ANDERSON, INC. DATE: JANUARY 13, 2023
LAST REVISED: 01/13/2023
DRAWN BY: WILSON, L. S. 15/24





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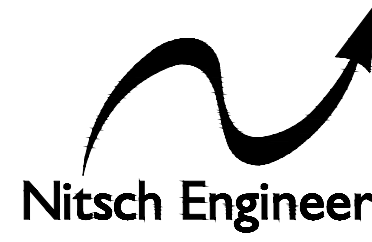
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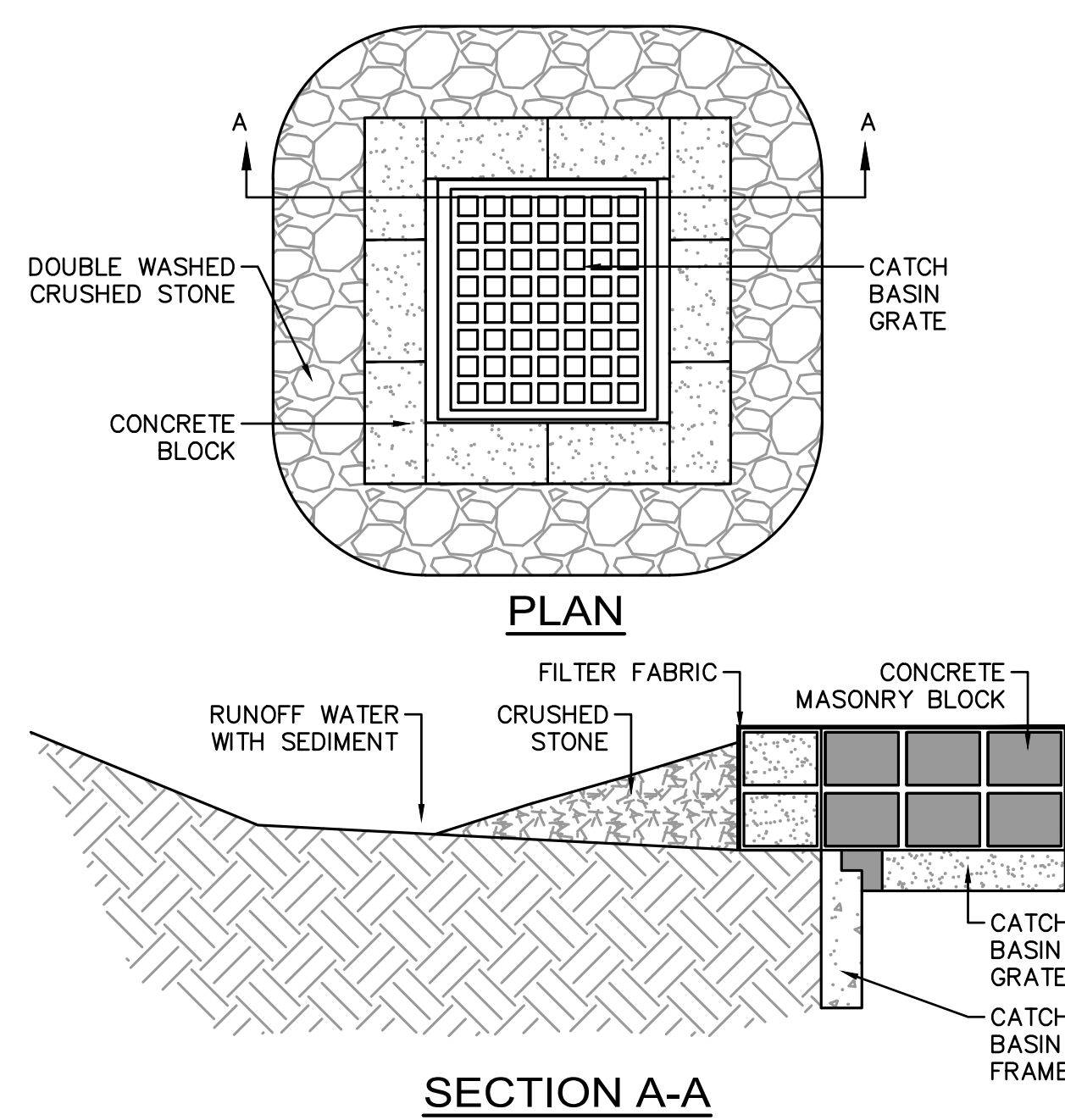
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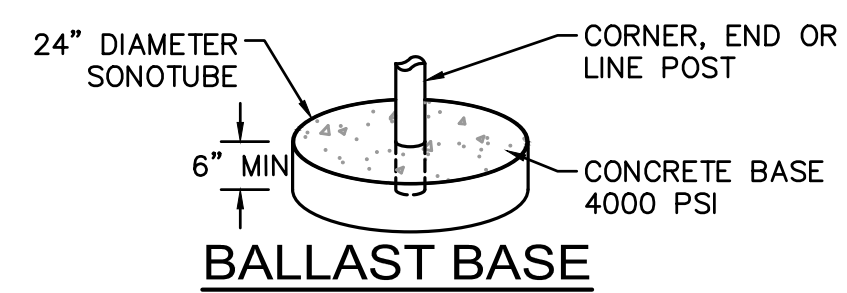
DRIVEWAY
CROSS-SECTIONS

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

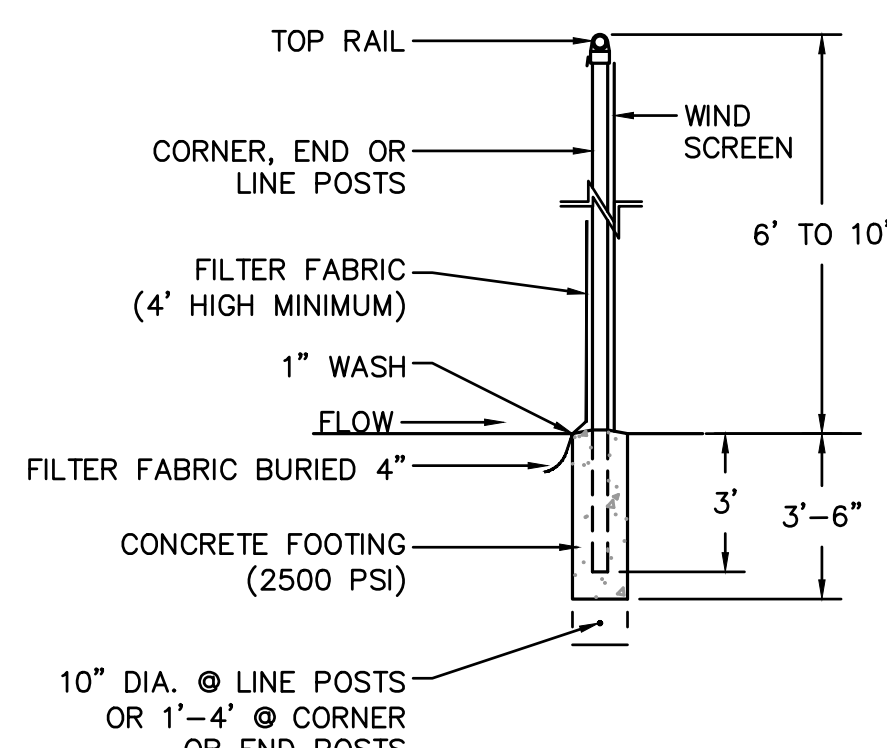
C-605



INLET PROTECTION
CATCH BASIN W/ BLOCK AND GRAVEL



This diagram shows the elevation of the fence system. It includes a cross-hatched area for the 'CHAINLINK FENCE' and a stippled area for the '4' HIGH MINIMUM FILTER FABRIC'. A 'TOP RAIL' is indicated at the top, supported by 'STEEL POSTS 4' O.C.'. Section lines 'A-A' are shown at the top and bottom. The diagram is labeled 'ELEVATION' at the bottom.



1. CHAINLINK FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. FILTER FABRIC SHALL BE FASTENED SECURELY TO CHAINLINK FENCING WITH TIES SPACED HORIZONTALLY 24" AS THE TOP AND MIDSECTION.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6".
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS SHALL BE REMOVED WHEN BUILD-UP REACHES 50% OF THE HEIGHT OF THE FILTER FABRIC.
5. MAINTENANCE OF SILT FENCE SHALL BE RECORDED TO IN THE SWPPP

The diagram illustrates the construction and use of a Wattle Spacing Table. It consists of two main parts: a Plan View and an Elevation View.

Plan View: This view shows the table as a grid of rectangular cells. The grid is formed by two sets of curved wooden stakes. The spacing between the stakes is labeled as "SPACING VARIES (TYP.) SEE WATTLE SPACING TABLE". The length of the stakes is labeled as "LENGTH VARIES". The table is used for "HORIZONTAL TRACKING" and "STAGGER POINTS (TYP.)".

Elevation View: This view shows the table from the side. It is a curved structure made of wooden stakes. The spacing between the stakes is labeled as "SPACING VARIES (TYP.) SEE WATTLE SPACING TABLE". The length of the stakes is labeled as "LENGTH VARIES". The table is used for "HORIZONTAL TRACKING" and "STAGGER POINTS (TYP.)".

Labels and Dimensions:

- WOODEN STAKE (TYP.)
- WATTLE - TRENCH
- 6" MAX. 2" MIN.
- 1" MIN.
- PLAN VIEW
- ELEVATION VIEW

SLOPE	MAX. SPACING
1:1	10'-0"
2:1	20'-0"
3:1	30'-0"
4:1	40'-0"

1. SECURELY KNOT EACH END OF WATTLE. ABOUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
2. PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLES AND INTO THE SOIL WHEN SOIL CONDITIONS REQUIRE.
3. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
4. ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

ELEVATION

Labels in diagram:

- TOP GUY WIRE
- CENTER GUY WIRE
- FENCE FABRIC
- CORNER, END OR LINE POSTS
- GREEN WIND SCREEN
- FIN. GRD.
- DRIVEN POST MIN 3' DEPTH.
- TYP. FENCE HEIGHT TO BE 8'-0" UNLESS OTHERWISE SPECIFIC
- CENTER GUY WIRE

** PER MANUFACTURER'S RECOMMENDATIONS

Diagram illustrating the slope installation process for a geotextile reinforcement system. The main diagram shows a cross-section of a slope with a geotextile (1) being installed over a prepared surface (2). A roller (3) is used to compact the geotextile. A chain (4) is used to pull the geotextile across the slope. A detail view (5) shows the geotextile being secured with a staple or nail. A note at the top left states: "** PER MANUFACTURER'S RECOMMENDATIONS".

1. PREPARE SOIL BEFORE INSTALLING EROSION CONTROL BLANKETS (ECB's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE ECB'S IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. APPLY SEED TO COMPACTED SOIL TO FOLD BACK OVER THE ECB'S. STAPLE OR STAPLE AND PUNCH THE ECB'S TO SECURE ECB'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAPLES SECURED ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATIONS ACROSS THE WIDTH OF THE ECB's.
3. ROLL THE ECB'S DOWN (A) OR HORIZONTALLY (B) ACROSS THE SLOPE. ECB'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. PLACE STAPLES OR STAPLES/PINFASTENED TO SOIL SURFACE BY PUNCHING STAPLES/STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAKE/STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL ECB'S MUST BE STAKED/STAPLED WITH OVERLAP DEPENDING ON ECB's TYPE. SEE THE MANUFACTURER'S RECOMMENDATIONS.
5. CONSECUTIVE ECB'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SINGLE STYLE) WITH AN OVERLAP (SEE THE MANUFACTURER'S RECOMMENDATIONS) OF 12" (MINIMUM) LIME/STAPLES) TO THE SOIL SURFACE AREA. ACROSS ENTIRE ECB'S WIDTH PER MANUFACTURER'S RECOMMENDATIONS.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAKE OR STAPLE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE ECB'S.
7. THE CONTRACTOR SHALL FOLLOW ALL INSTALLATION INSTRUCTIONS AS RECOMMENDED BY THE MANUFACTURER.

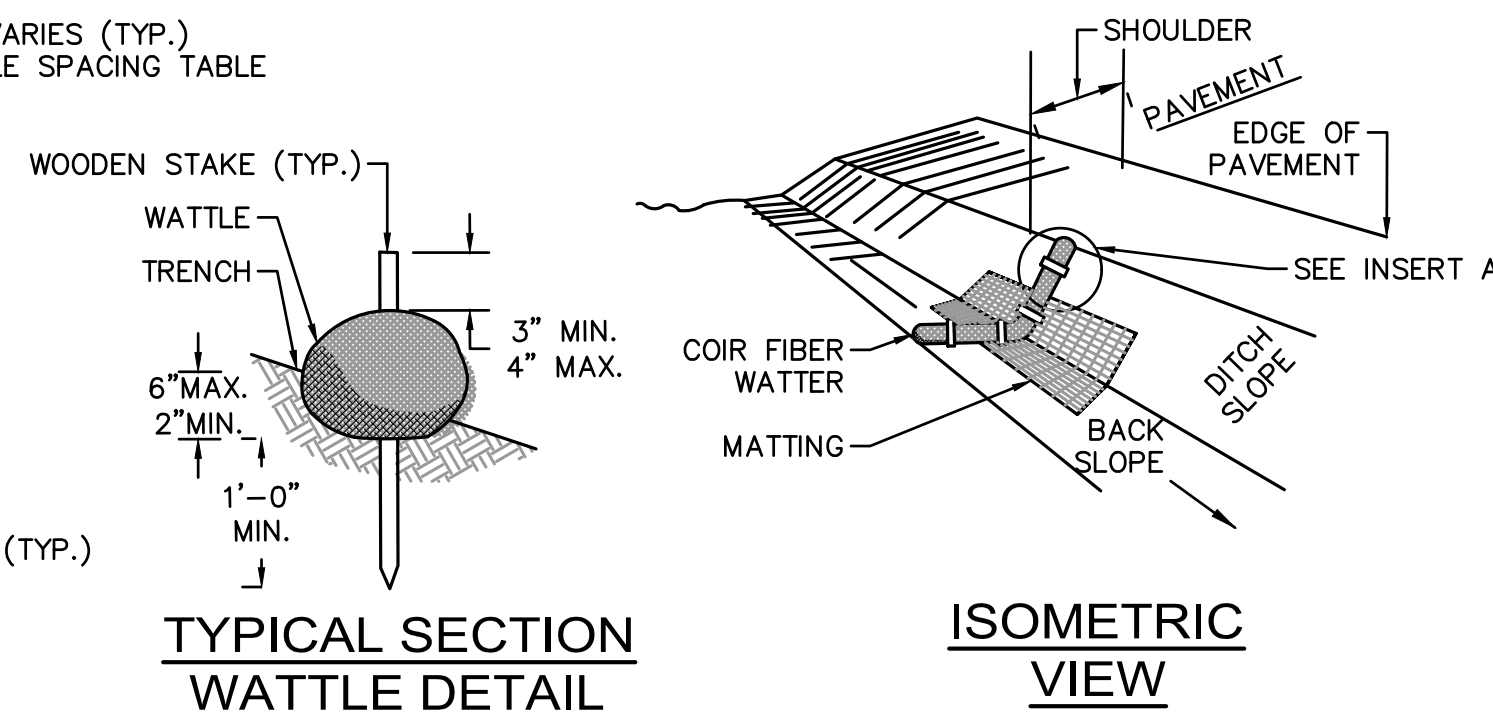
A cross-sectional diagram of a temporary construction fence. The fence is composed of a vertical section of 18" straw waddles, with wood chips from on-site trees placed between them. A silt fence with wire reinforcement is attached to the top of the waddles. The fence is 36" high, with a minimum exposed height of 36" and a minimum total height of 16". The fence is located between a protected area and a work area, with sheet flow indicated by an arrow pointing towards the work area. The fence is labeled as a section of the temporary construction fence.

Labels in the diagram include:

- SILT FENCE WITH WIRE REINFORCEMENT
- 18" STRAW WADDLES (TYP.)
- WOOD CHIPS FROM ON-SITE TREES (TYP.)
- SHEET FLOW
- WORK AREA
- SECTION
- UNDISTURBED
- 16" MIN.
- 36" MIN. EXPOSED HEIGHT
- PROTECTED AREA
- TEMPORARY 6' CONSTRUCTION FENCE

A cross-sectional diagram of a silt fence system. On the left, a vertical line represents the 'TEMPORARY 6" CONSTRUCTION FENCE'. To its left is the 'PROTECTED AREA'. To its right is the 'UNDISTURBED' ground. A '36" MIN. EXPOSED HEIGHT' is indicated for the fence. To the right of the fence is a 'SILT FENCE WITH WIRE REINFORCING & ORANGE SNOW FENCE (TYP.)'. Further right are 'WOOD STAKES CONTINUOUSLY WITH TWO STAKE STAKES 4" MAX O.C.'. Behind the stakes are '18" STRAW WADDLES (TYP.)' and 'WOOD CHIPS FROM ON-SITE TREES (TYP.)'. A 'SHEET FLOW' arrow points from the 'WORK AREA' on the right towards the silt fence. The diagram is labeled 'SECTION' at the bottom.

SENSITIVE AREA PERIMETER
PROTECTION BARRIER
SILT FENCE DETAIL WITH WATTLES



VARIES (TYP.)
WATTLE-SEE TABLE

WATTLE-SEE DETAIL

**CROSS SECTION
VEE DITCH**

2" IN.

2' UPSLOPE STAKE

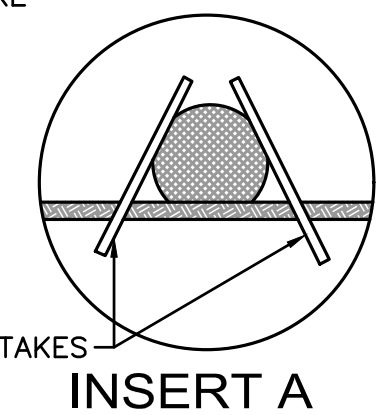
2' DOWNSLOPE STAKE

MATTING

NATURAL GROUND

**CROSS SECTION
TRAPEZOIDAL DITCH**

CROSS SECTION TRAPEZOIDAL DITCH

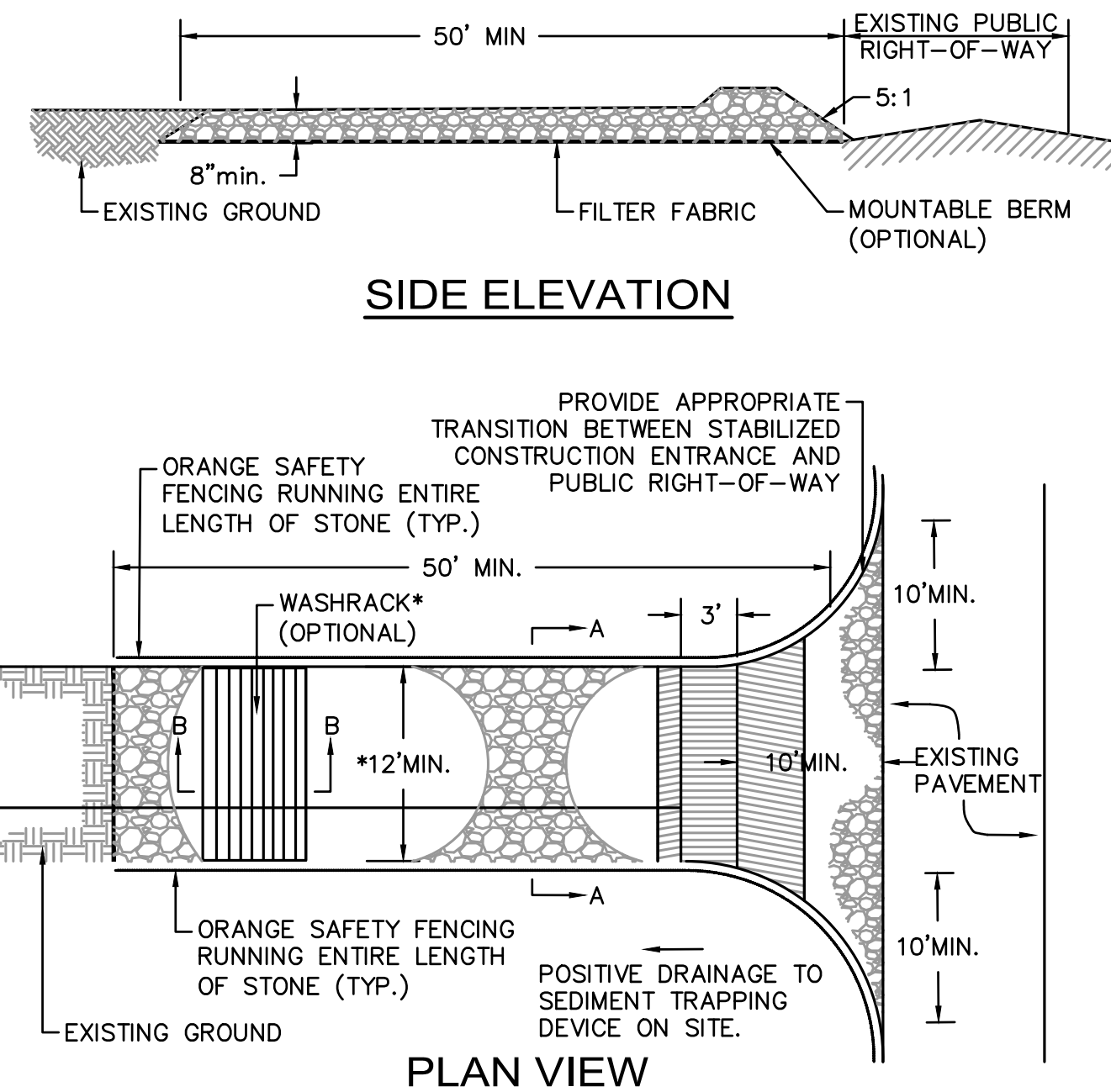


GATE PLAN

Diagram illustrating the Gate Plan with dimensions and components:

- Overall width: 24'
- Overall height: 8'
- Locking Device: Indicated by an arrow pointing to the central locking mechanism.
- Post in 2000 PSI CONCRETE: Indicated by an arrow pointing to the base of the gate posts.
- Dimensions for the concrete base:
 - Top section: 36"
 - Bottom section: 36"
 - Side section: 12"

24' WIDE DOUBLE GATE
NOT TO SCALE



SECTION A-A

12" MIN* (ONE WAY)
24" MIN* (TWO WAY)

4" MIN.

4" MIN.

FILTER FABRIC

2" TO 3" STONE COURSE
AGGREGATE (TYP.)

* MUST EXTEND FULL WIDTH
OF INGRESS AND EGRESS
OPERATION

SECTION B-B

6" - 7" (MIN.)

REINFORCED CONCRETE

DRAIN SPACE

SECTION B-B

PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.

1" REBAR FOR BAG REMOVAL FROM INLET (REBAR NOT INCLUDED)

EXISTING CURB OPENING

FOAM

INCLUDE OVERFLOW

SILT-SAC, HYDRO-FLOGARD + PLUS CATCH BASIN INSERT, ULTRA-DRAINAGUARD INSERT, OR APPROVED EQUAL

DUMP LOOPS (REBAR NOT INCLUDED)

DEPTH = D

EXISTING GRATE TO BE REUSED

WIDTH = W

LENGTH = L

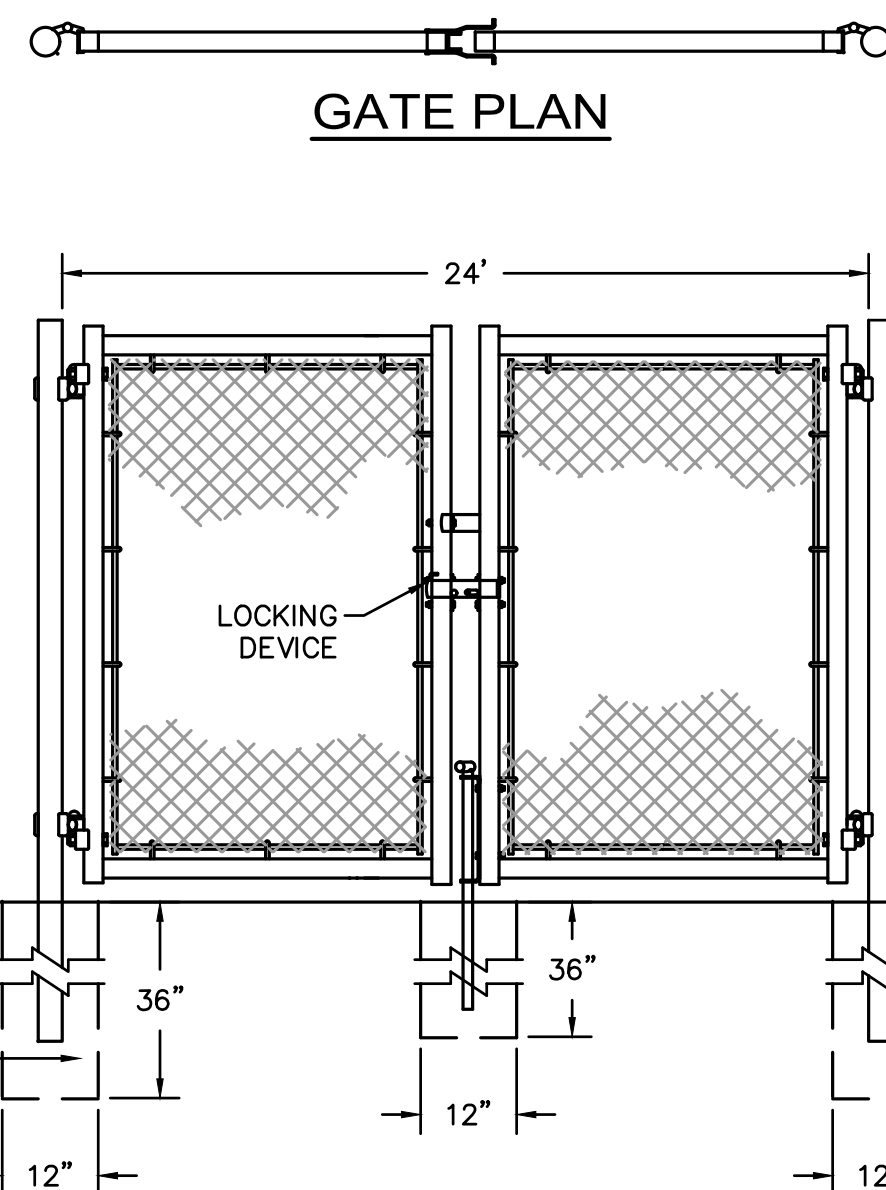
EXISTING CATCH BASIN

SIDE VIEW INSTALLED

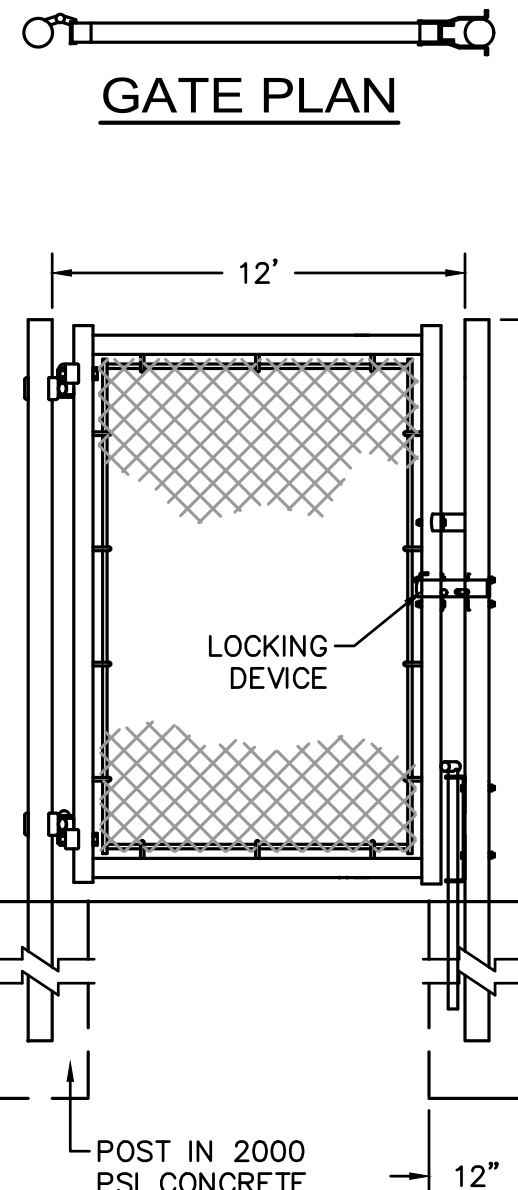
EXPANSION RESTRAINT

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS SHEET, OVERLAND OR CONCENTRATED FLOWS (NOT GREATER THAN 1 CFS). THE METHOD CAN DRAIN FLAT AREA TO STEEP SLOPES. INLET CAPACITY WILL BE DECREASED WITH THIS METHOD AND THE CONTRACTOR SHALL EXPECT PONDING DURING HIGH FLOW EVENTS.

INLET PROTECTION
CATCH BASIN W/ SILTATION SACK
NOT TO SCALE



24' WIDE DOUBLE GATE
NOT TO SCALE



12' WIDE EMERGENCY GATE
NOT TO SCALE

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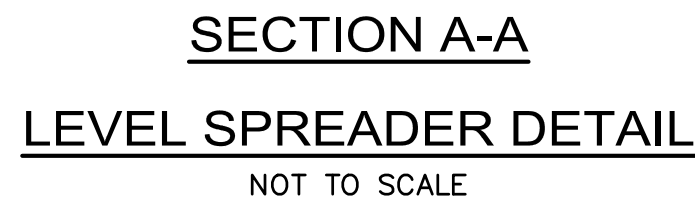


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CIVIL SITE DETAILS II

File: AS NOTED
No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-701



NOTES:

1. FRAME AND COVER SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
2. 24" ACCESS BASINS SHALL BE NYLOPLAST MODEL 2824 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. ACCESS BASINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO ACCESS BASINS.



NOTES:

1. FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
2. 24" AREA DRAINS SHALL BE NYLOPLAST MODEL 2824 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. AREA DRAINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO AREA DRAINS.

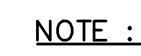


NOTES:

1. FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
2. 15" AREA DRAINS SHALL BE NYLOPLAST MODEL 2815 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. AREA DRAINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO AREA DRAINS.



* PEAK FLOW RATE BASED ON RATIONAL ANALYSIS FOR A 25-YEAR STORM EVENT. STRUCTURE SHALL BE ABLE TO PASS PEAK FLOW RATE WITHOUT CAUSING A BACKWATER CONDITION.



1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL CLEANOUT PIPE.
3. STRUCTURE DESIGNED FOR H2O LOADING.

WATER QUALITY STRUCTURE DETAIL
NOT TO SCALE

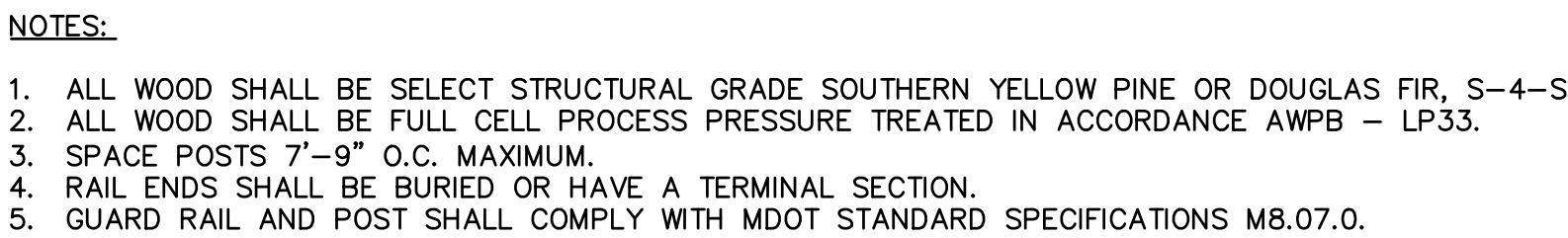
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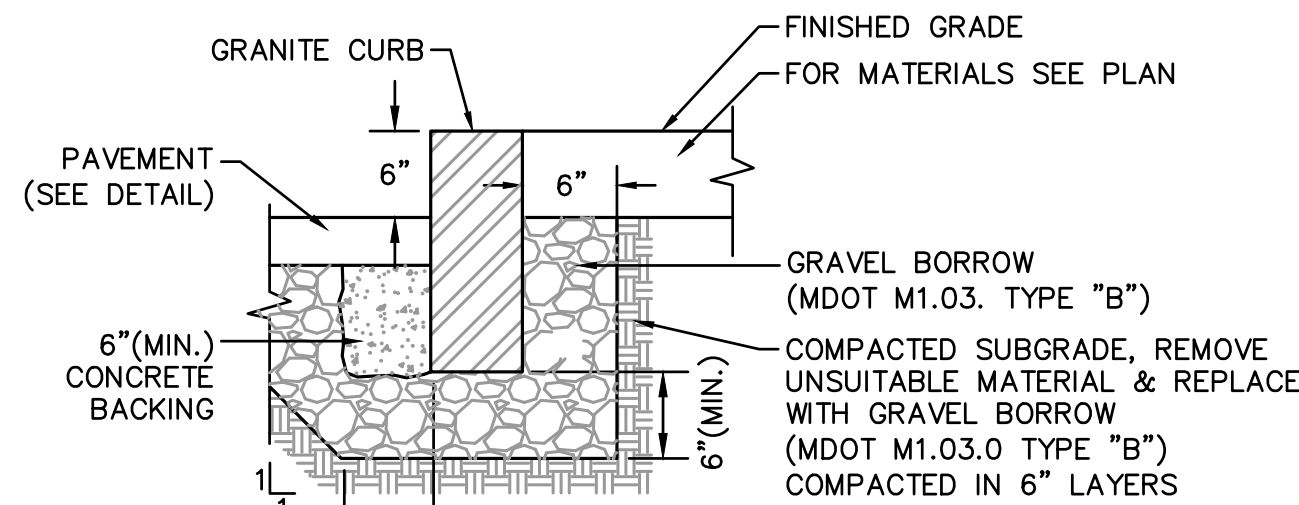
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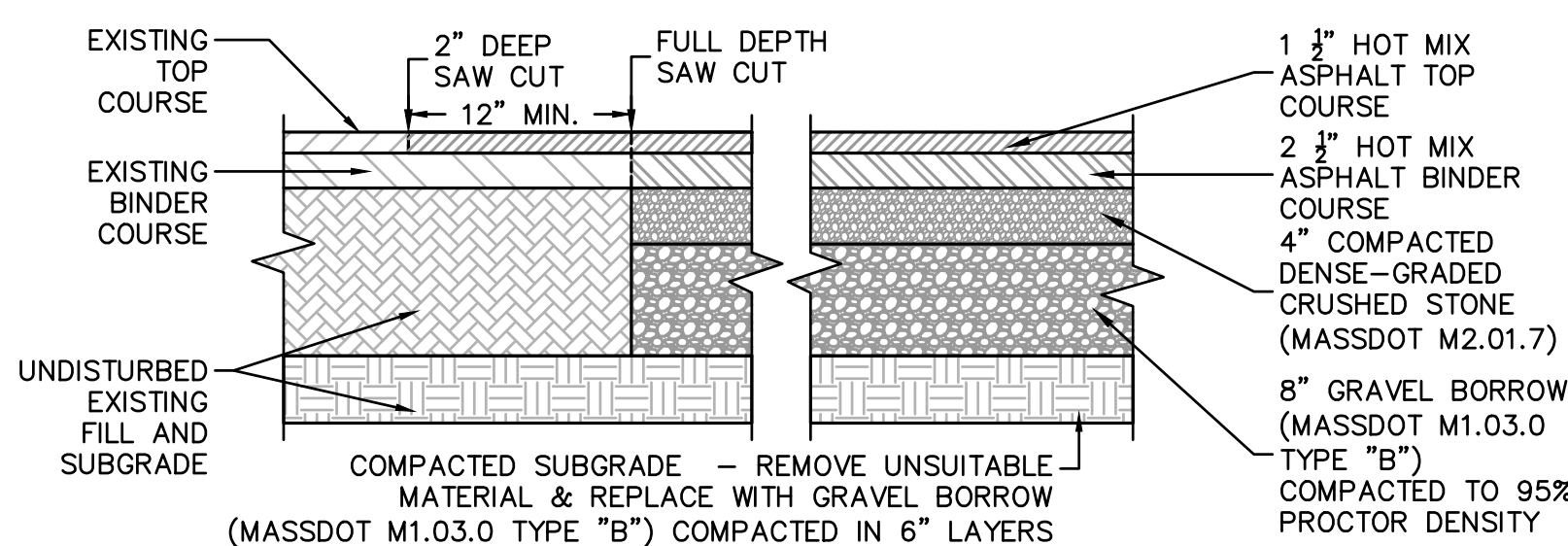
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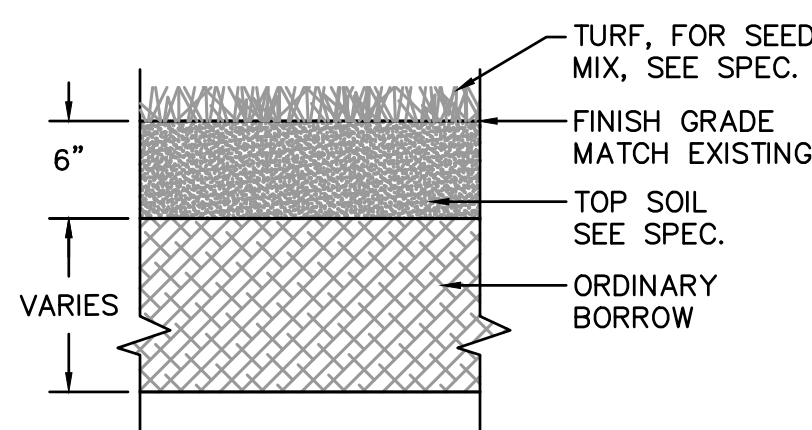
TIMBER GUARD RAIL DETAIL
NOT TO SCALE



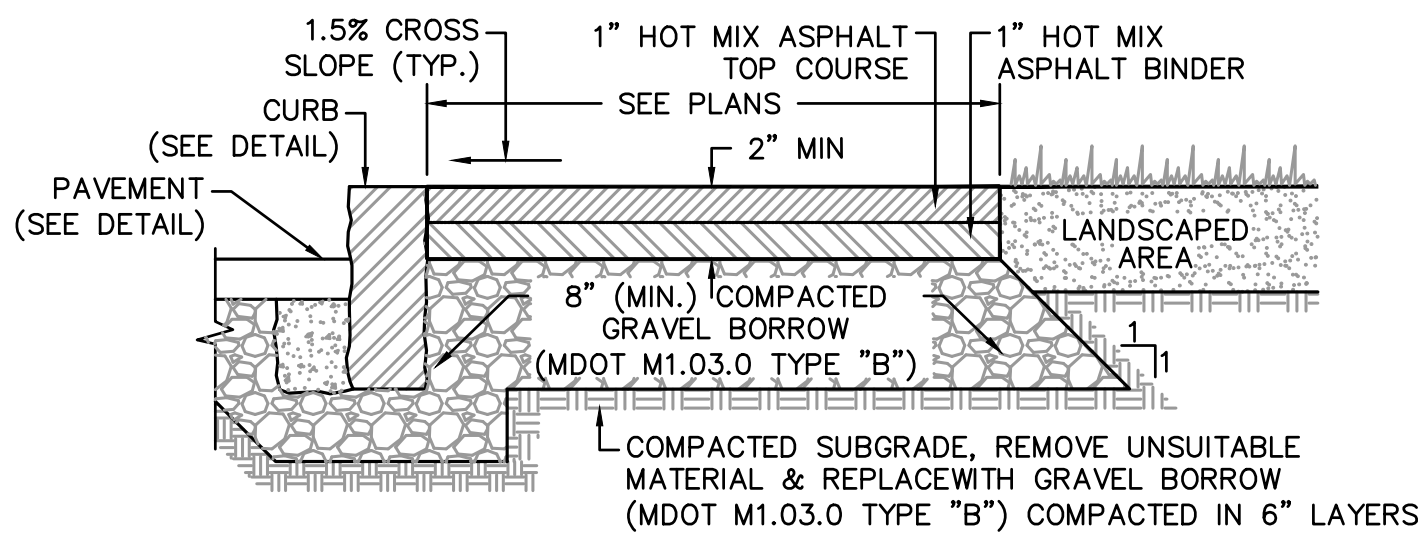
VERTICAL GRANITE CURB SETTING DETAIL



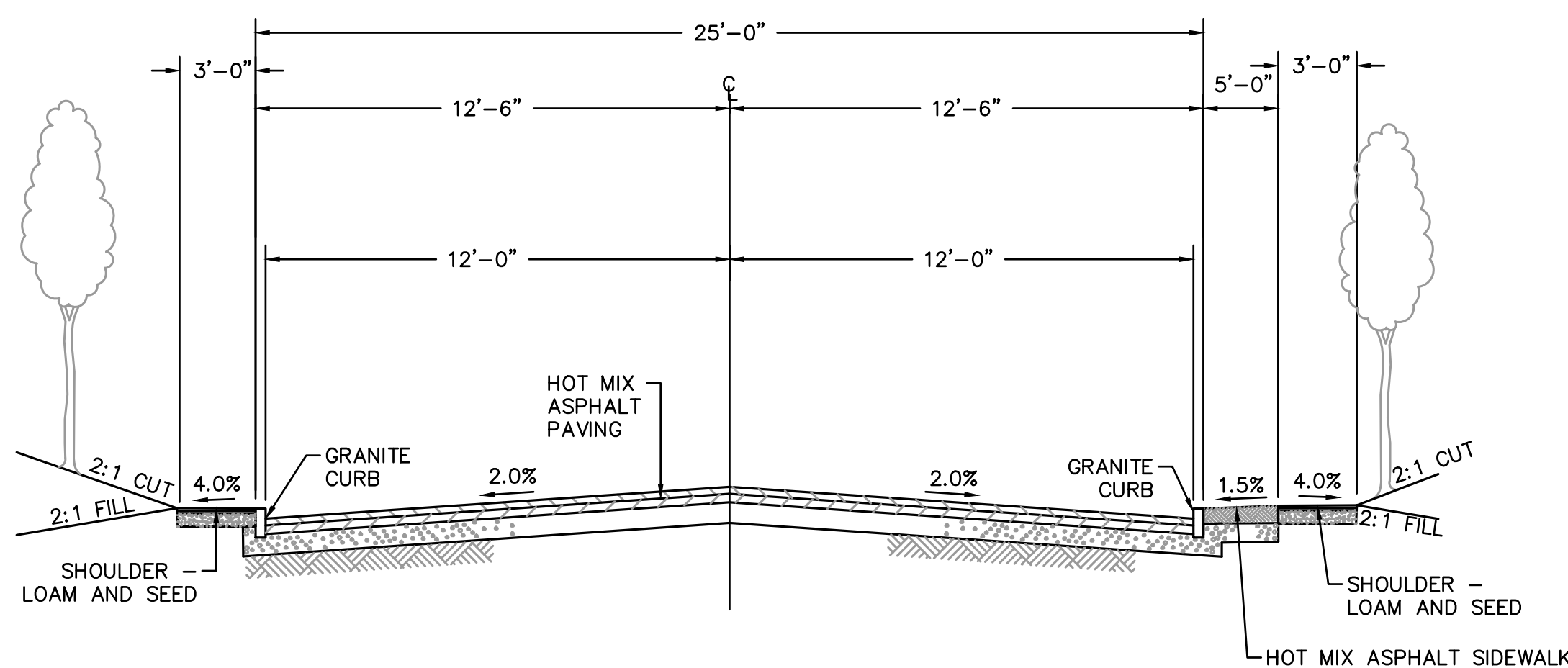
HOT MIX ASPHALT PAVING (TWO COURSES) DETAIL
NOT TO SCALE



LOAM AND SEED DETAIL
NOT TO SCALE



HOT MIX ASPHALT SIDEWALK DETAIL
NOT TO SCALE



DRIVEWAY
NOT TO SCALE

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