

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 BELOW FINISH GRADE.
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 BACKFILLED, AND THE TOP OF THE STRUCTURE 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.

[illegible]

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE "MASSACHUSETTS 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 SITES SPECIFIC CONDITIONS AND PURPOSES. ADDITIONAL MEANS OF 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 PER DRAINAGE SWALE. IN CASE OF SEVERE CONDITIONS WATERSHEDS, 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 DRAINAGE SURFACES SHALL BE EXPOSED TO EROSION. CALIBRATED STABILIZATION SHALL BE CONSIDERED FOR ALL STABILIZATION AREAS. 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 ENGINEER.
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 PERMITTED. THE CONTRACTOR SHALL FOLLOW THE TOWN OF WAKEFIELD 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) RECOVERING AND RELOCATING 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; 2) REPLANTING OF NATIVE PERENNIALS, 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. WHERE APPROPRIATE, HYDRO-SEEDING WILL BE USED. EROSION CONTROL BLANKETS AT THE DIRECTION OF THE WETLAND SPECIALIST.

- TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "TOPOGRAPHIC SURVEY, NORTHEAST METROPOLITAN REGIONAL AUTHORITY, 100 NEWLOOK ROAD, WAKEFIELD, MA," PREPARED BY NITSON ENGINEERING, DATED JUNE 3, 2020, REVISED THROUGH JULY 7, 2021.
- THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHIN 72 HOURS, NOT EXCLUSIVE OF PUBLIC HOLIDAYS AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE OR CABLE TELEVISION SERVICE OR THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.
- THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82A, ALSO REFERRED TO AS JACKIE'S LAW, AS DETAILED IN SECTION 520 CMR 14.00 OF THE CODE OF MASSACHUSETTS REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS.
- 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 CONSTRUCTION OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE 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 OBTAINING ANY NECESSARY PERMITS IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER AND/OR ENGINEERING FIRM OF ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMIT OF WORK AS WELL AS AS ANY EXISTING UTILITIES, STRUCTURES, OR OTHERS. OTHERWISE, MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT AND CONSTRUCTION CONDITIONS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
- 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 PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
- THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROL.
- ELEVATIONS REFER TO NAVD83 (REFER TO THE EXISTING CONDITIONS SURVEY FOR ADDITIONAL INFORMATION).
- THE CONTRACTOR SHALL COMPLY WITH THE ORDER OF CONDITIONS DATED XXXX XX, XXXX, AND ISSUED BY THE TOWN OF WAKEFIELD CONSERVATION COMMISSION (EPC #XXX-XXXX).
- FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT PREPARED BY LAHAF GEOTECHNICAL CONSULTING, INC.

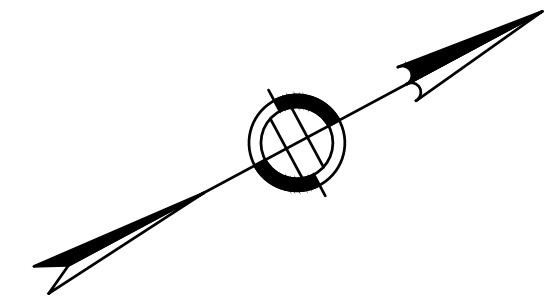
- ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE LOCAL MUNICIPALITY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS RELATED TO UTILITY WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL PERMISSIONS FOR, AND FOR CONDUCTING ALL PREPARATIONS RELATED TO, WORK AFFECTING ANY EXISTING UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR 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 ANY CONSTRUCTION (AND 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 CONTRACTOR SHALL REMAIN AND A PROPOSED EXISTING WATER LINE TO REMAIN BOTH WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE. A 12" TO 18" DUCTILE IRON PIPE CROSSING UNDER A WATER MAIN SHALL BE FULL LENGTH OF WATER PIPE 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 COMPLIANT.

	LIMIT OF WORK
// //	EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS
○ — ○	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
— x —	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

AB	ACCESS URSLIN
AD	AREA DRAIN
BC	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
HYD	FIRE HYDRANT
INVT	INVERT ELEVATION
LF	LINEAR FEET
LOW	LIMIT OF WORK
M&P	MAINTAIN AND PROTECT
OCS	OUTLET CONTROL STRUCTURE
PD	PERIMETER DRAIN
PERF	PERFORATED
PVC	POLYVINYL CHLORIDE PIPE
R&S	REMOVE AND DISPOSE
R&D	REMOVE AND STOCKPILE
RD	ROOF DRAIN
RM	RM ELEVATION
ROW	RIGHT OF WAY
SMH	SEWER MANHOLE
TC	TOP OF CURB ELEVATION
TE	TOP OF WALL ELEVATION
THH	TELECOM HANDHOLE
TMH	TELECOM MANHOLE
TYP	TYPICAL
VGC	VERTICAL GRATE CURB
WQI	WATER QUALITY INLET
WQS	WATER QUALITY STRUCTURE
WV	WATER VALVE

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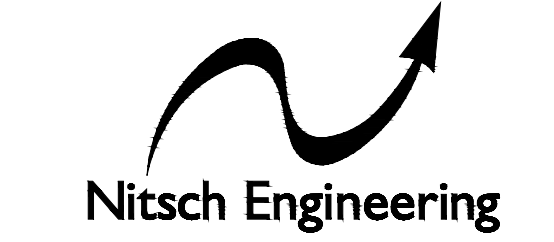


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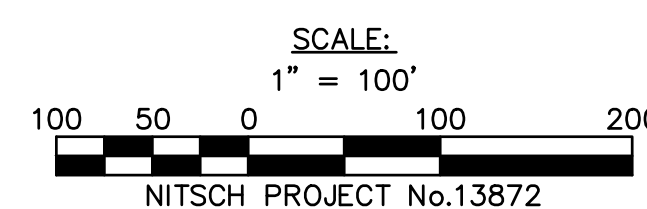
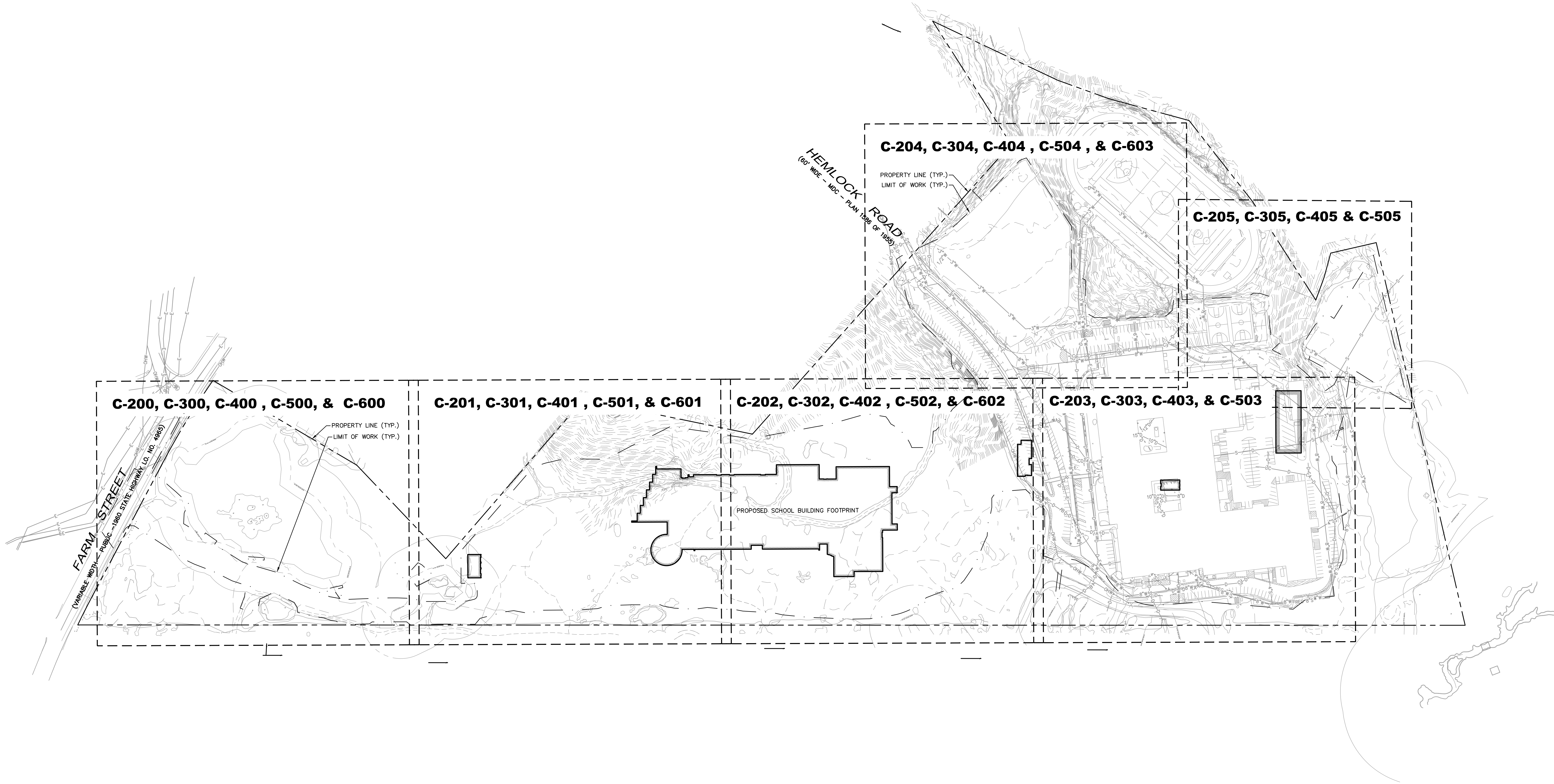
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KEY PLAN

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Date: JANUARY 13, 2023

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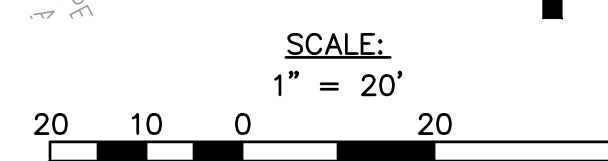
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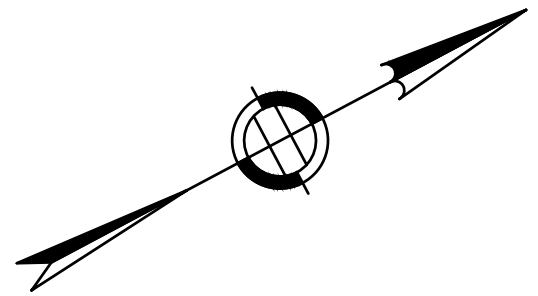
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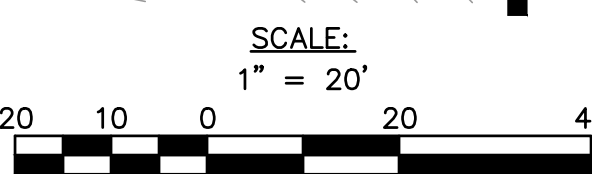
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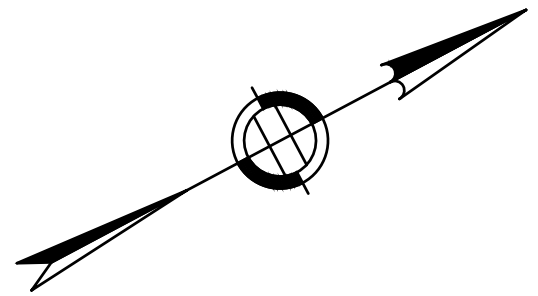
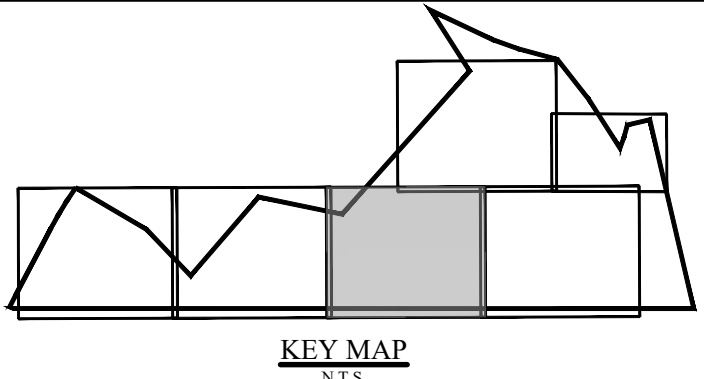
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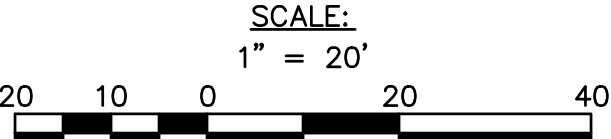
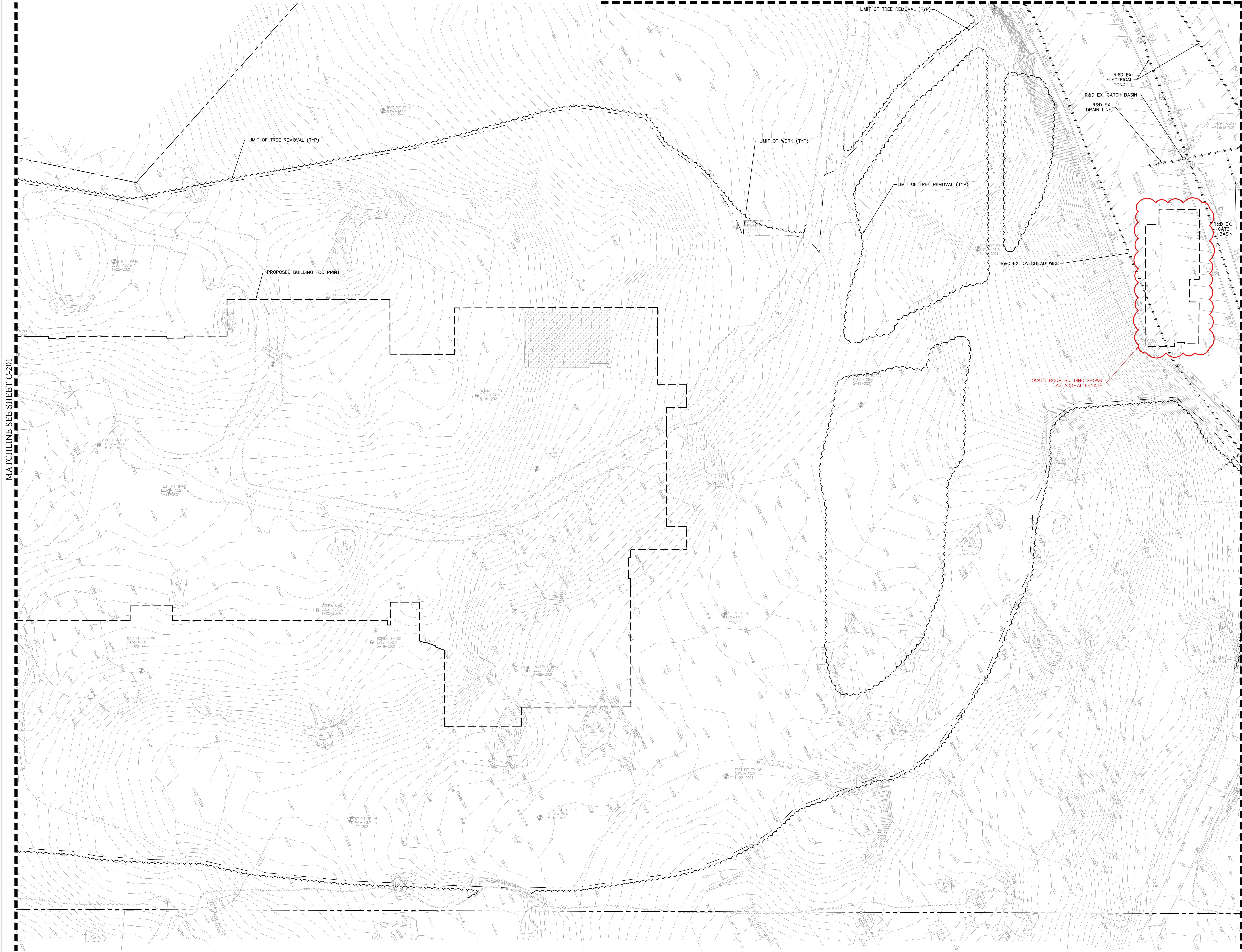
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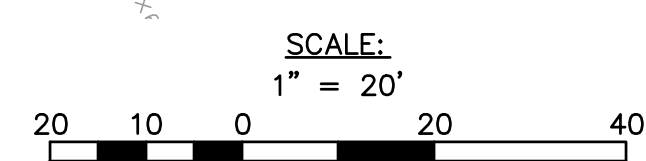
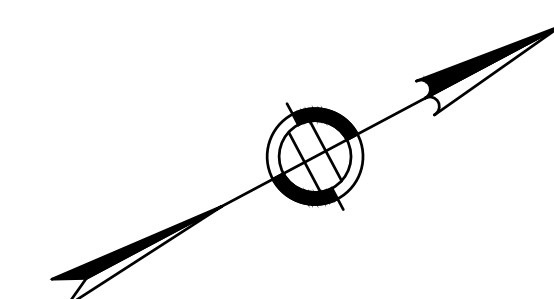
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UTILITY
DEMOLITION PLAN
III

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UTILITY
DEMOLITION PLAN
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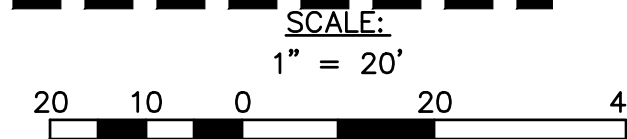
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Job No.: 13872

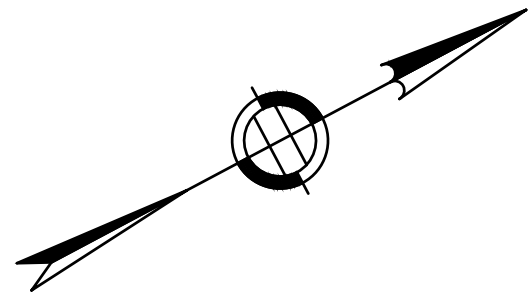
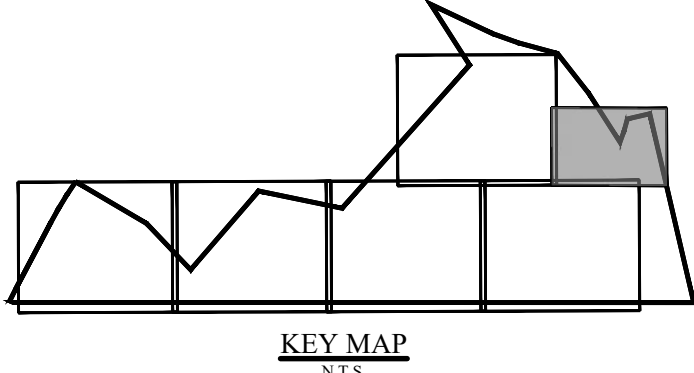
Drawn By: WL

C-204



MATCHLINE SEE SHEET C-202

MATCHLINE SEE SHEET C-203



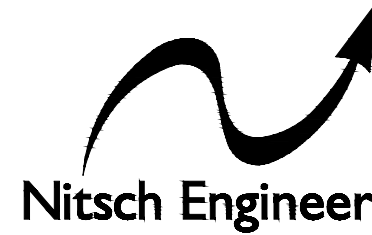
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- NITSCH PROJECT No. 13872



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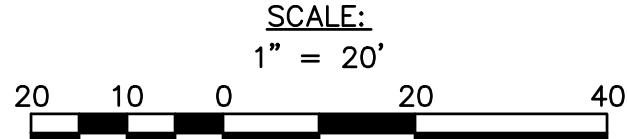
MSBA 60% CD
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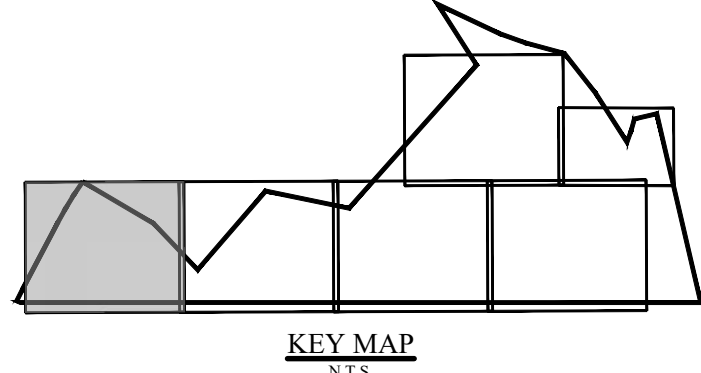
JANUARY 13, 2023

**UTILITY
DEMOLITION PLAN
VI**

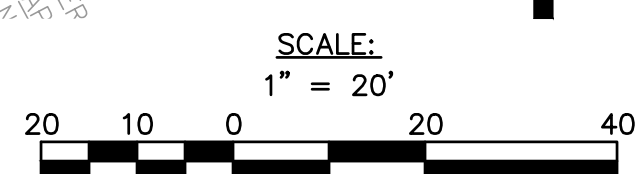
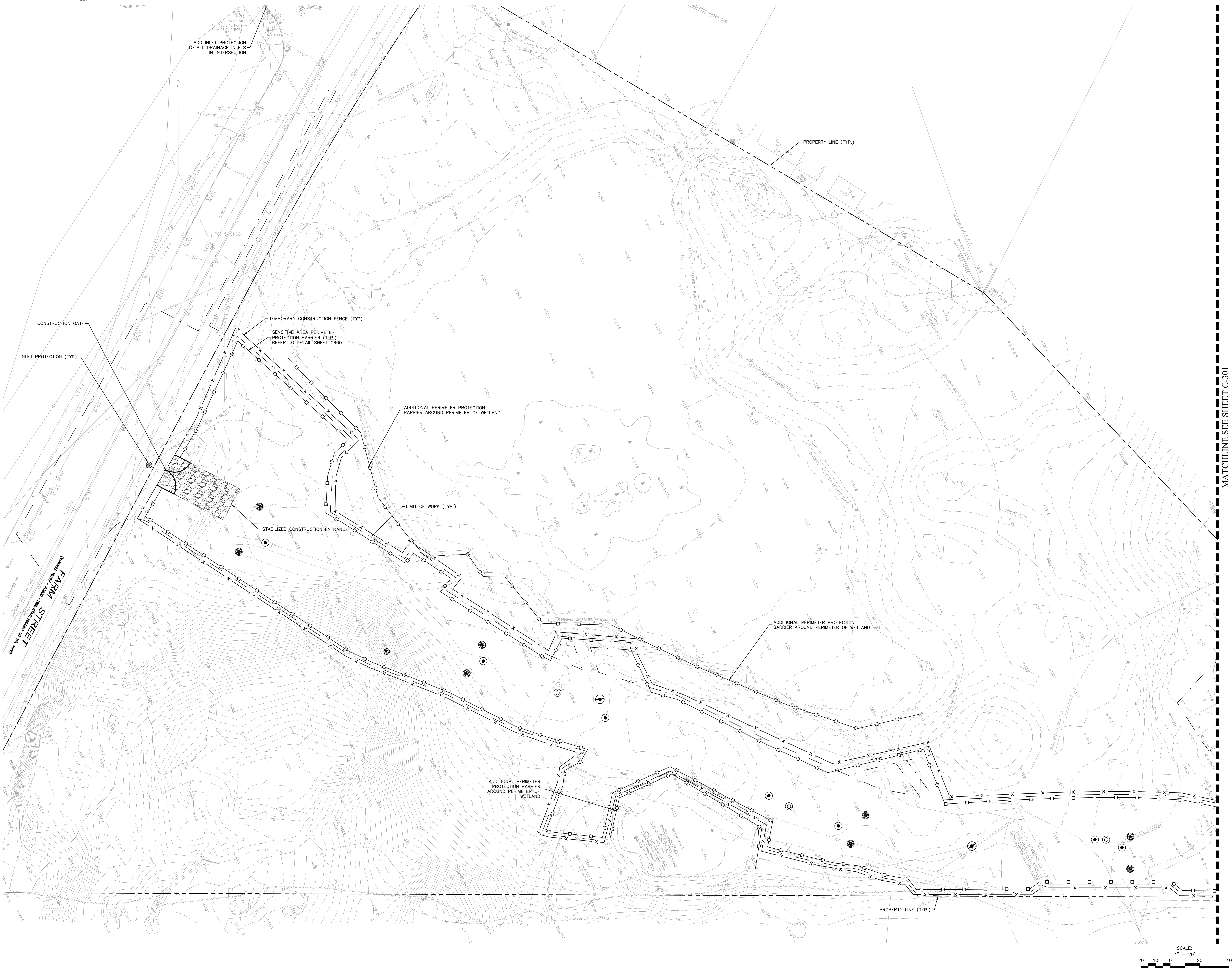
Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-205





- 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



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JANUARY 13, 2023

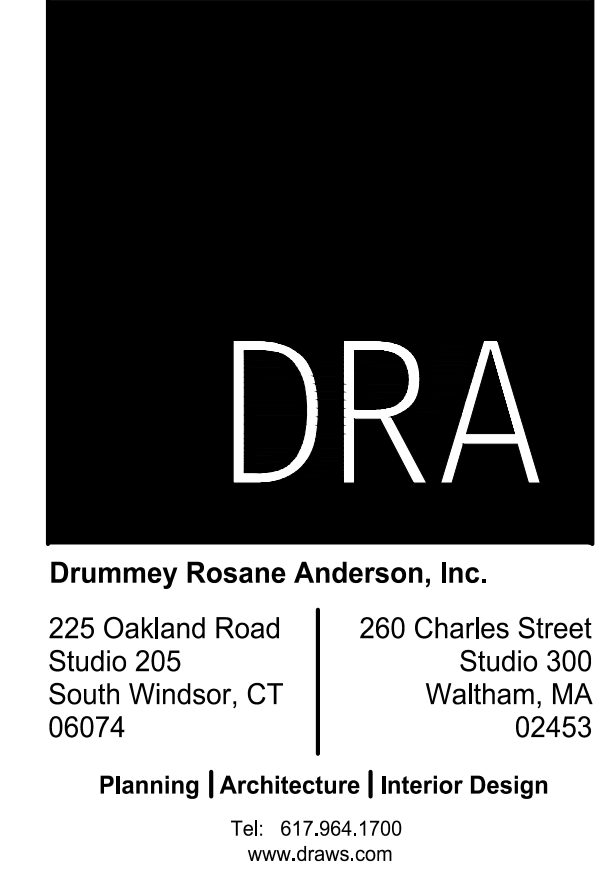
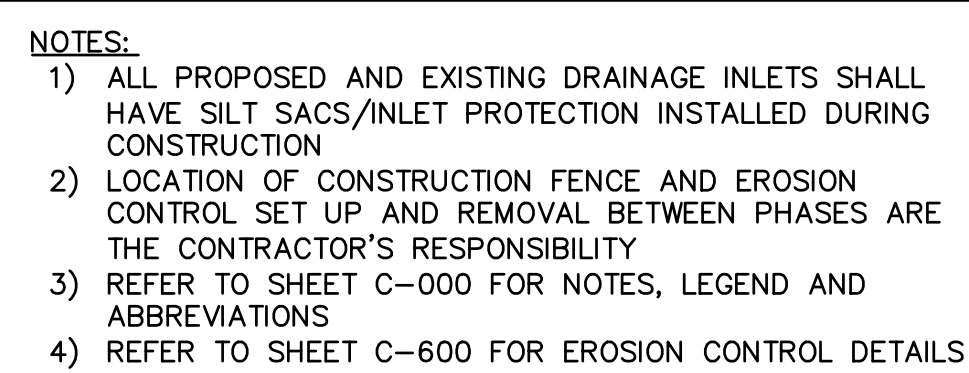
SEDIMENTATION AND EROSION CONTROL PLAN I

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

C-300

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MATCHLINE SEE SHEET C-301



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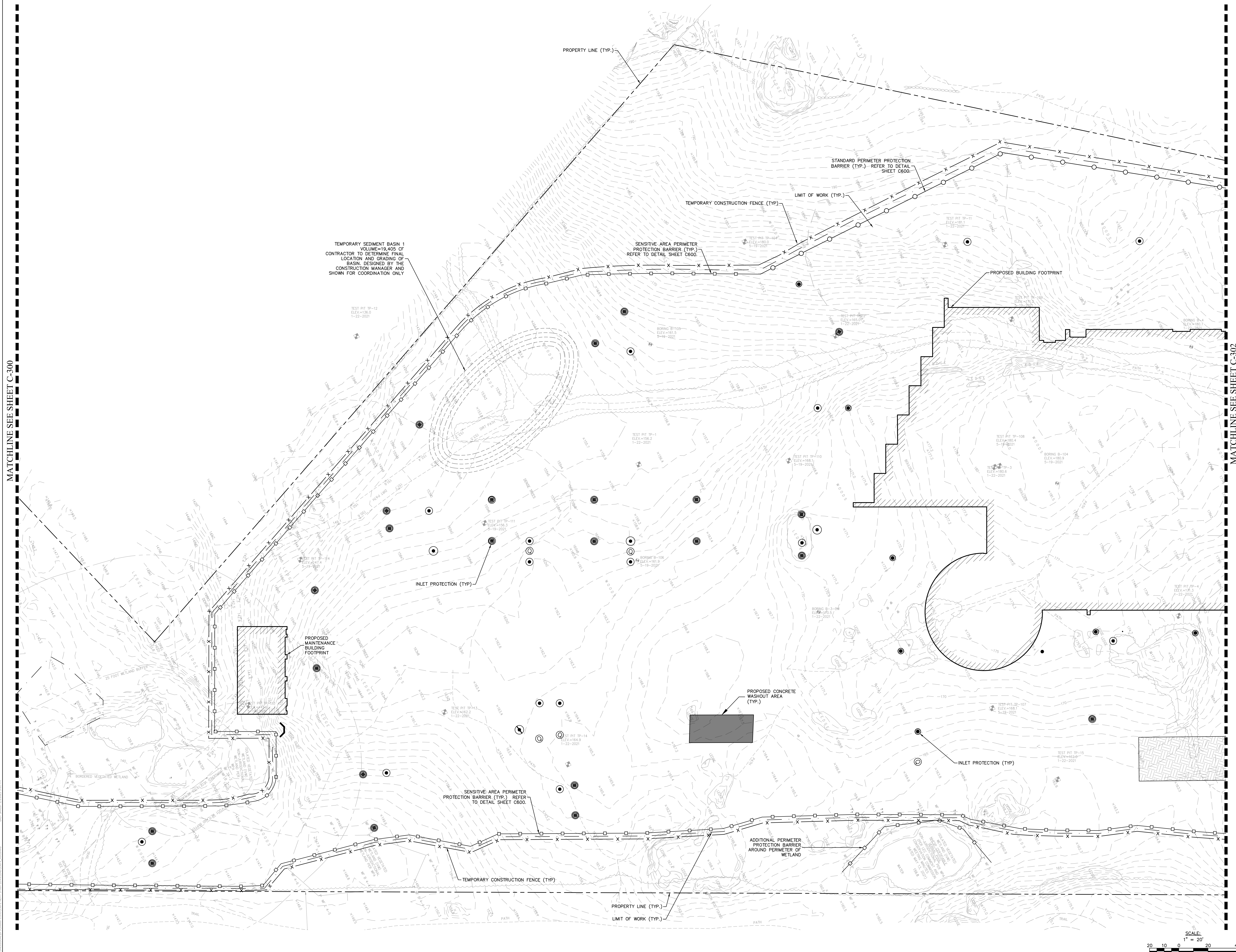
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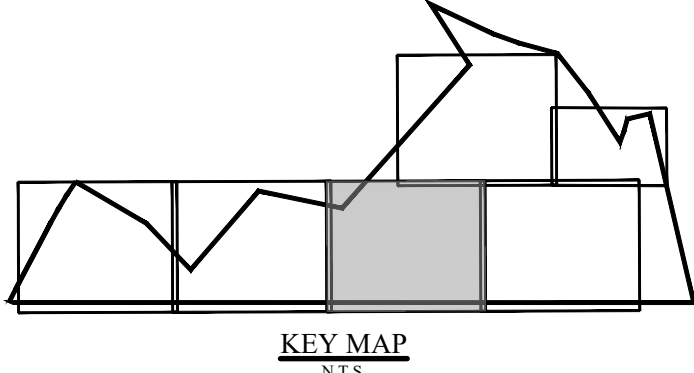
JANUARY 13, 2023

SEDIMENTATION AND EROSION CONTROL PLAN I

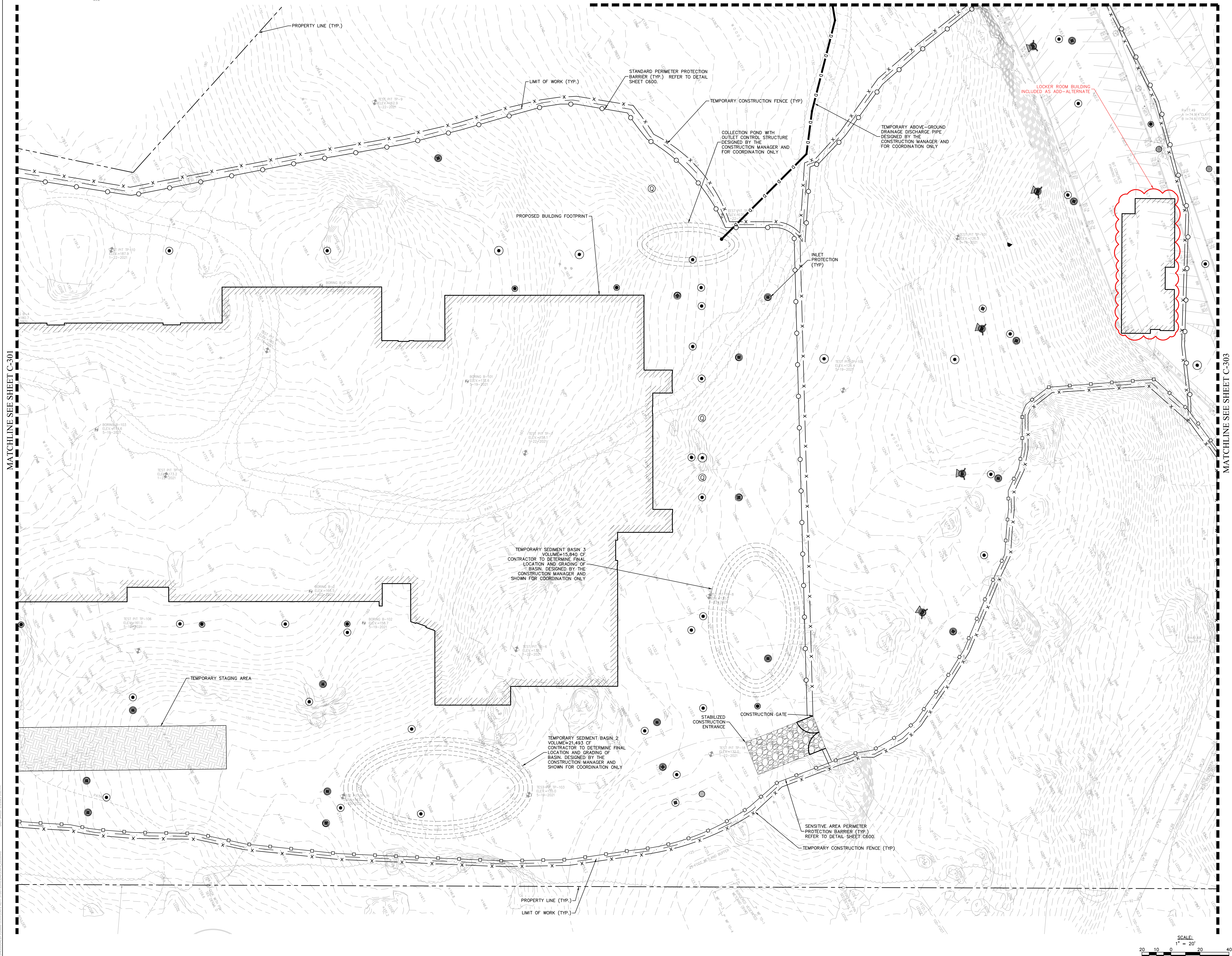
Scale: AS NOTED
Job No.: 13872
Drawn By: WL

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



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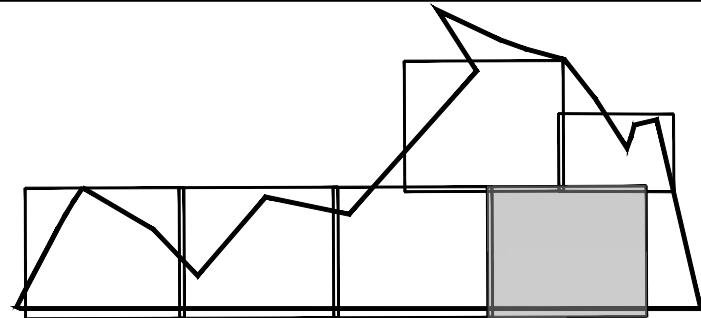
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SEDIMENTATION AND EROSION CONTROL PLAN III

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

C-302



- 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-304

MATCHLINE SEE SHEET C-305

MATCHLINE SEE SHEET C-302



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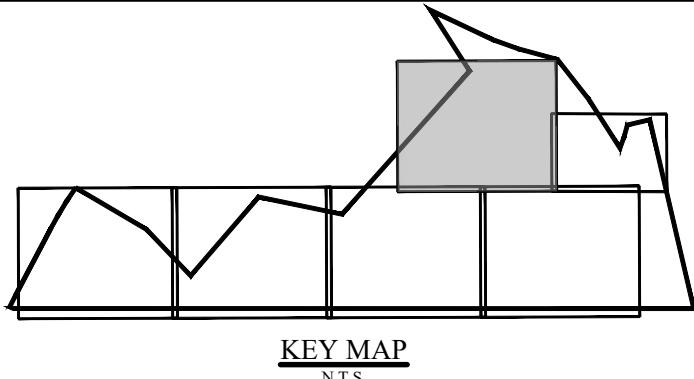
MSBA 60% CD
SUBMISSION

JANUARY 13, 2023

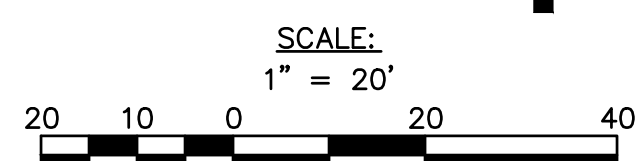
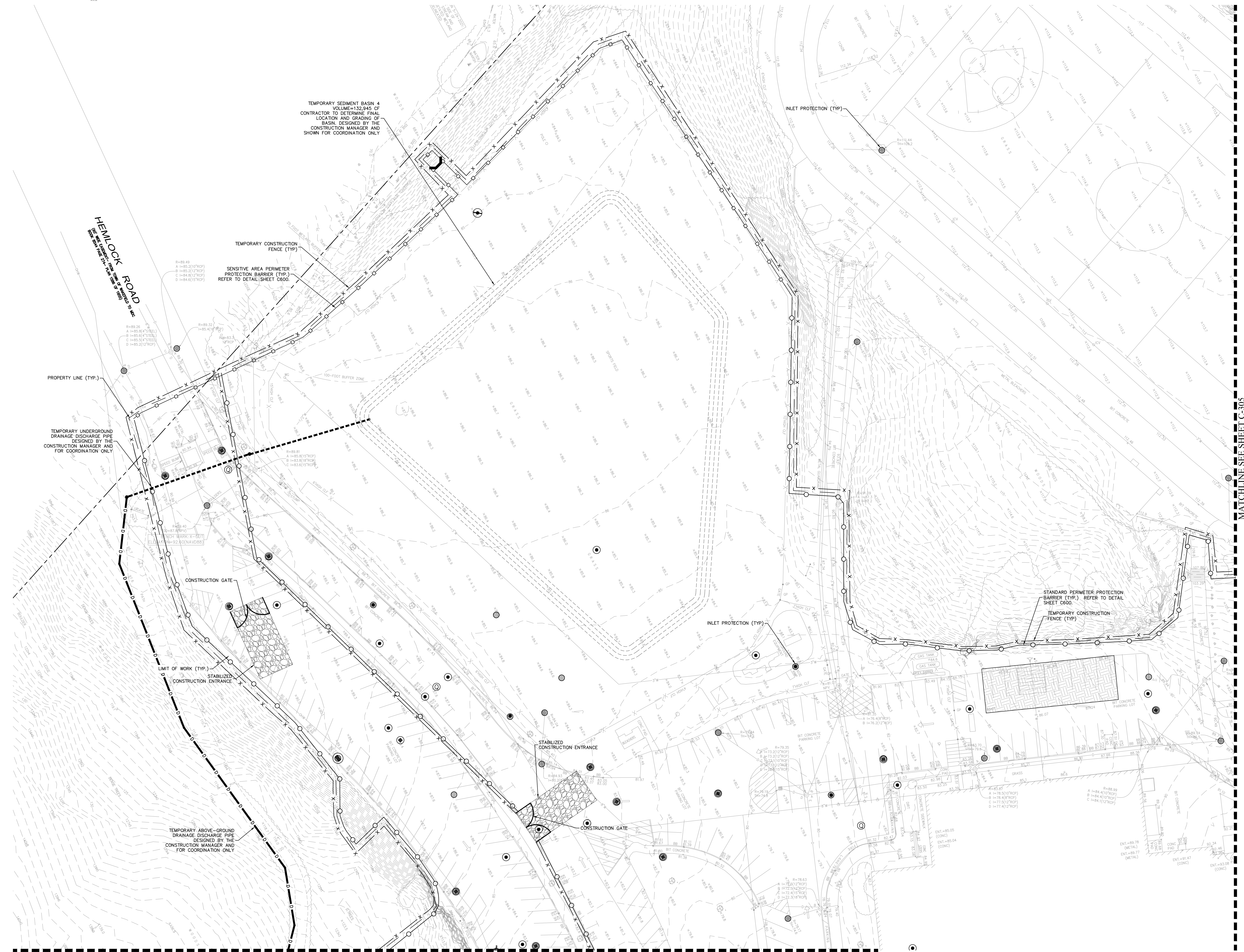
**SEDIMENTATION
AND EROSION
CONTROL PLAN IV**

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

C-303



- 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



DRA

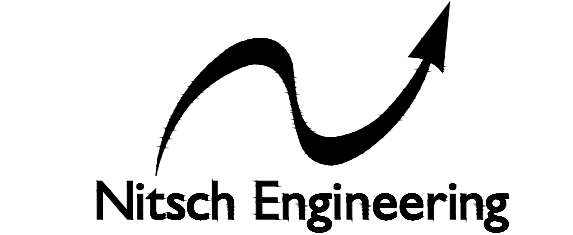
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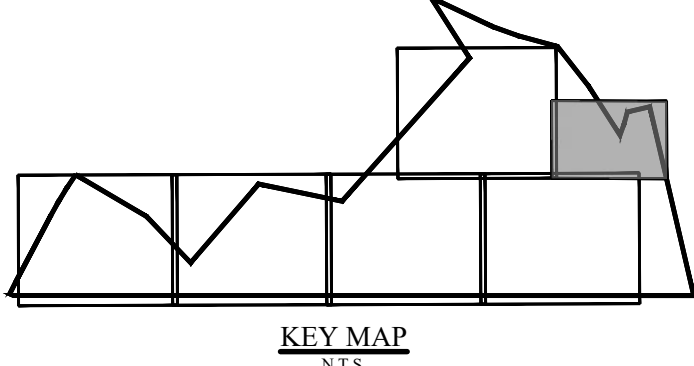
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JANUARY 13, 2023

**SEDIMENTATION
AND EROSION
CONTROL PLAN V**

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

C-304

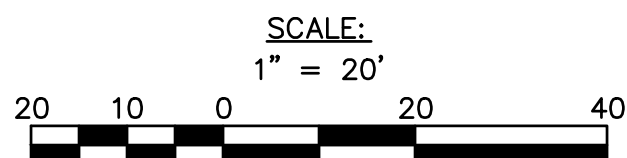


- NOTES:
- 1) ALL PROPOSED AND EXISTING DRAINAGE INLETS SHALL HAVE SILT SACS/INLET PROTECTION INSTALLED DURING CONSTRUCTION
 - 2) LOCATION OF CONSTRUCTION FENCE AND EROSION CONTROL SET UP AND REMOVAL BETWEEN PHASES ARE THE CONTRACTOR'S RESPONSIBILITY
 - 3) REFER TO SHEET C-000 FOR NOTES, LEGEND AND ABBREVIATIONS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



MATCHLINE SEE SHEET C-304

MATCHLINE SEE SHEET C-303



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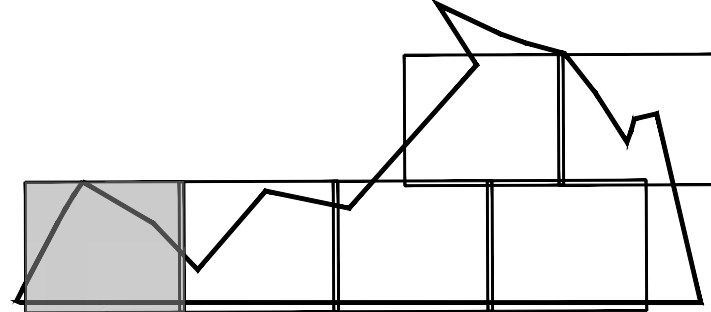
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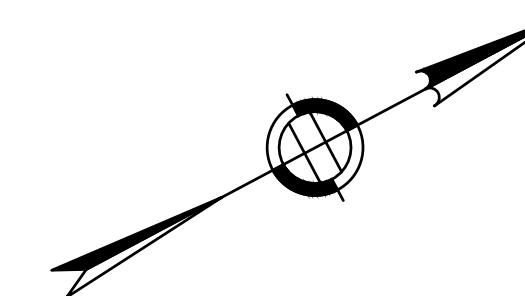
**SEDIMENTATION
AND EROSION
CONTROL PLAN VI**

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

C-305



KEY MAP
S13

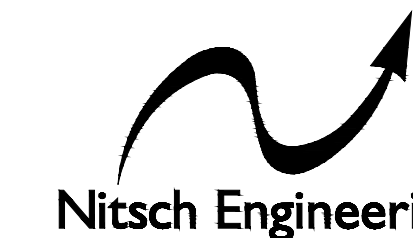


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NITSCH PROJECT No. 13872

MATCHLINE SEE SHEET C-401

MSBA 60% CD
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JANUARY 13, 2023

DRAINAGE PLAN I

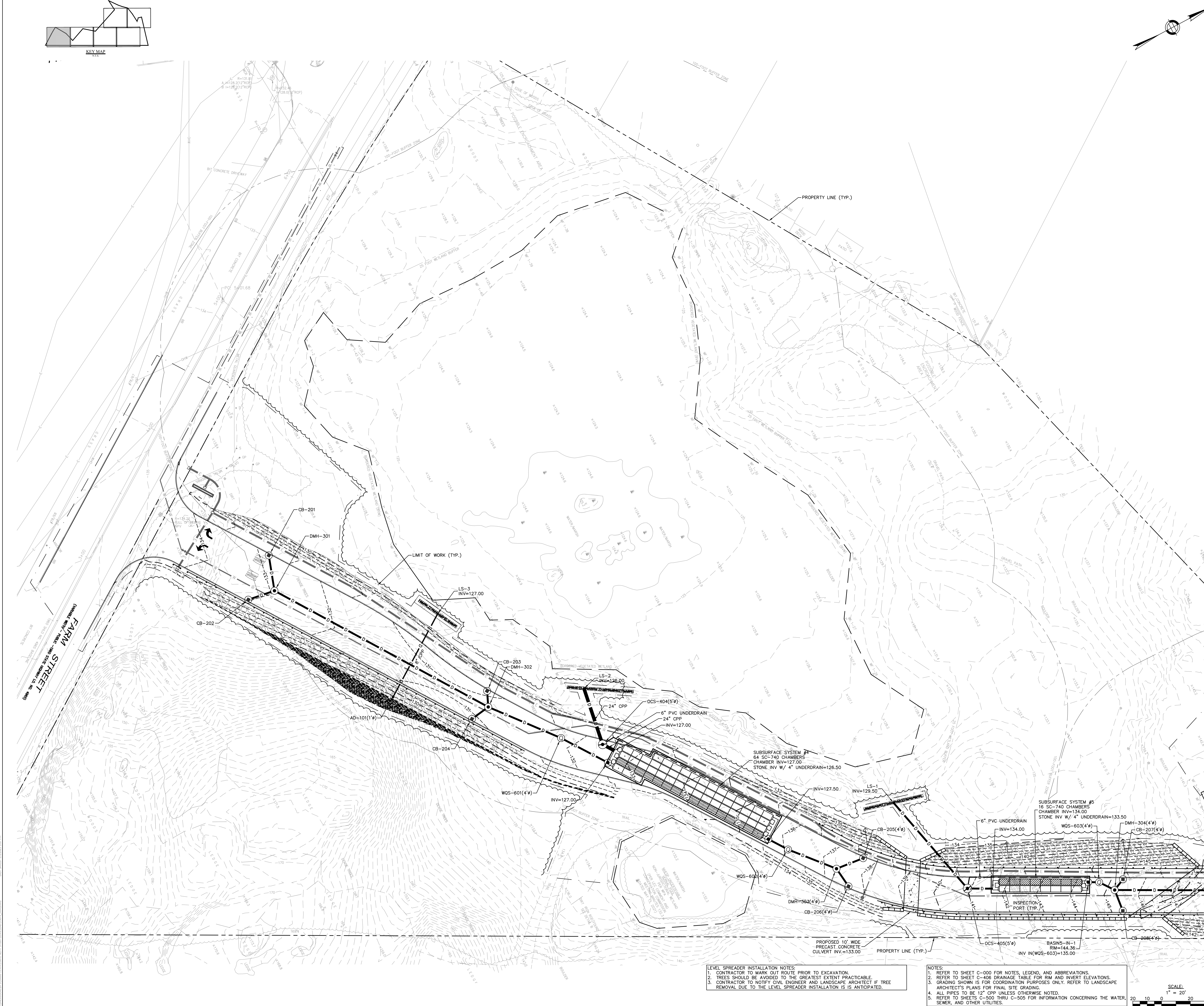
Scale: AS NOTED

Job No.: 13872

Drawn By: WCL

Date: JANUARY 13, 2023

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.

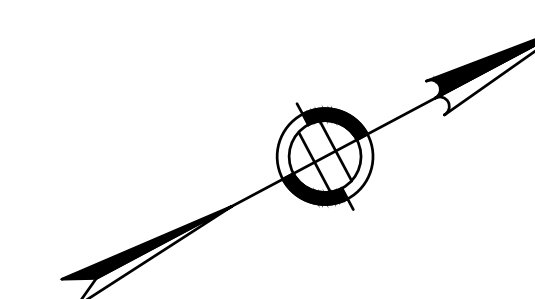
NOTES:
1. REFER TO SHEET C-000 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. REFER TO SHEET C-406 DRAINAGE TABLE FOR RIM AND INVERT ELEVATIONS.
3. GRADING SHOWN IS FOR COORDINATION PURPOSES ONLY. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR FINAL SITE GRADING.
4. ALL PIPES TO BE 12" CPP UNLESS OTHERWISE NOTED.
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

UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.



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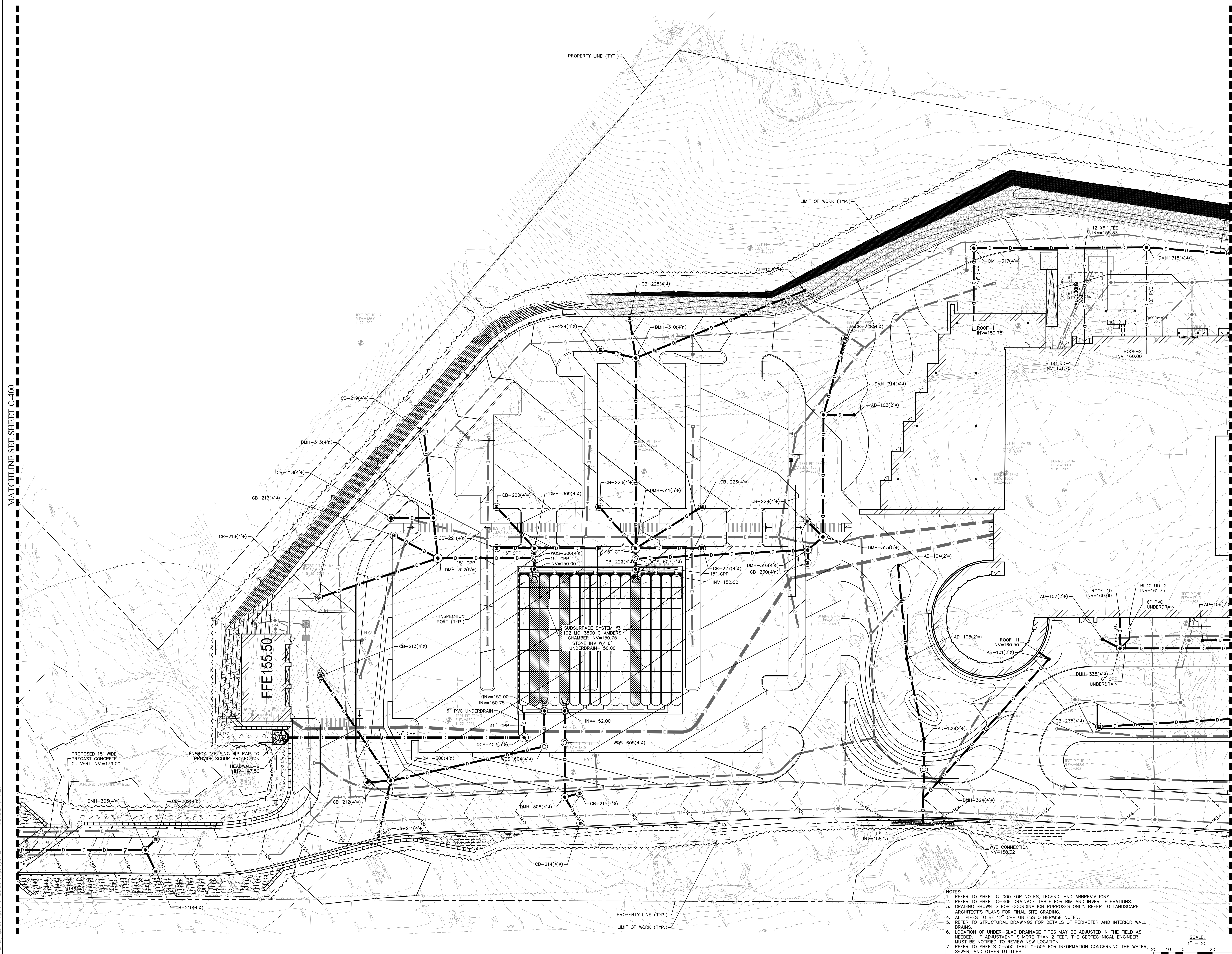
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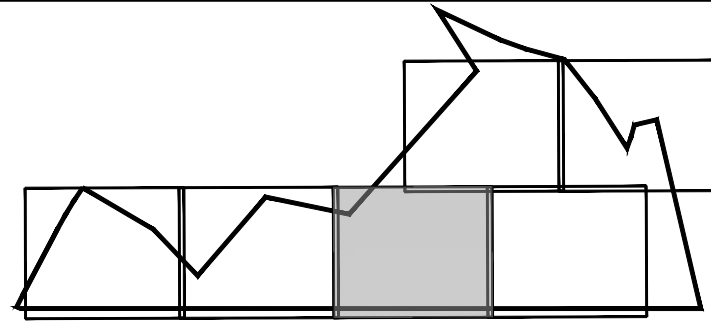
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 - ▶ Transportation Engineering
 - ▶ Structural Engineering
 - ▶ Green Infrastructure
 - ▶ Planning
 - ▶ GIS
-
- NITSC PROJECT No. 13872

JANUARY 13, 2023

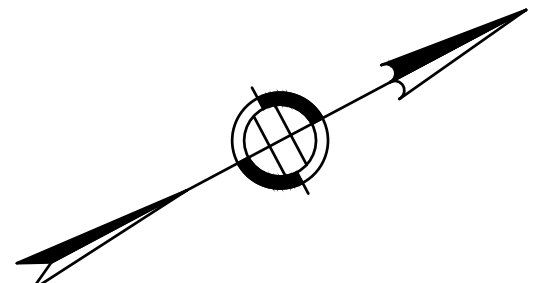
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Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2000

C-401





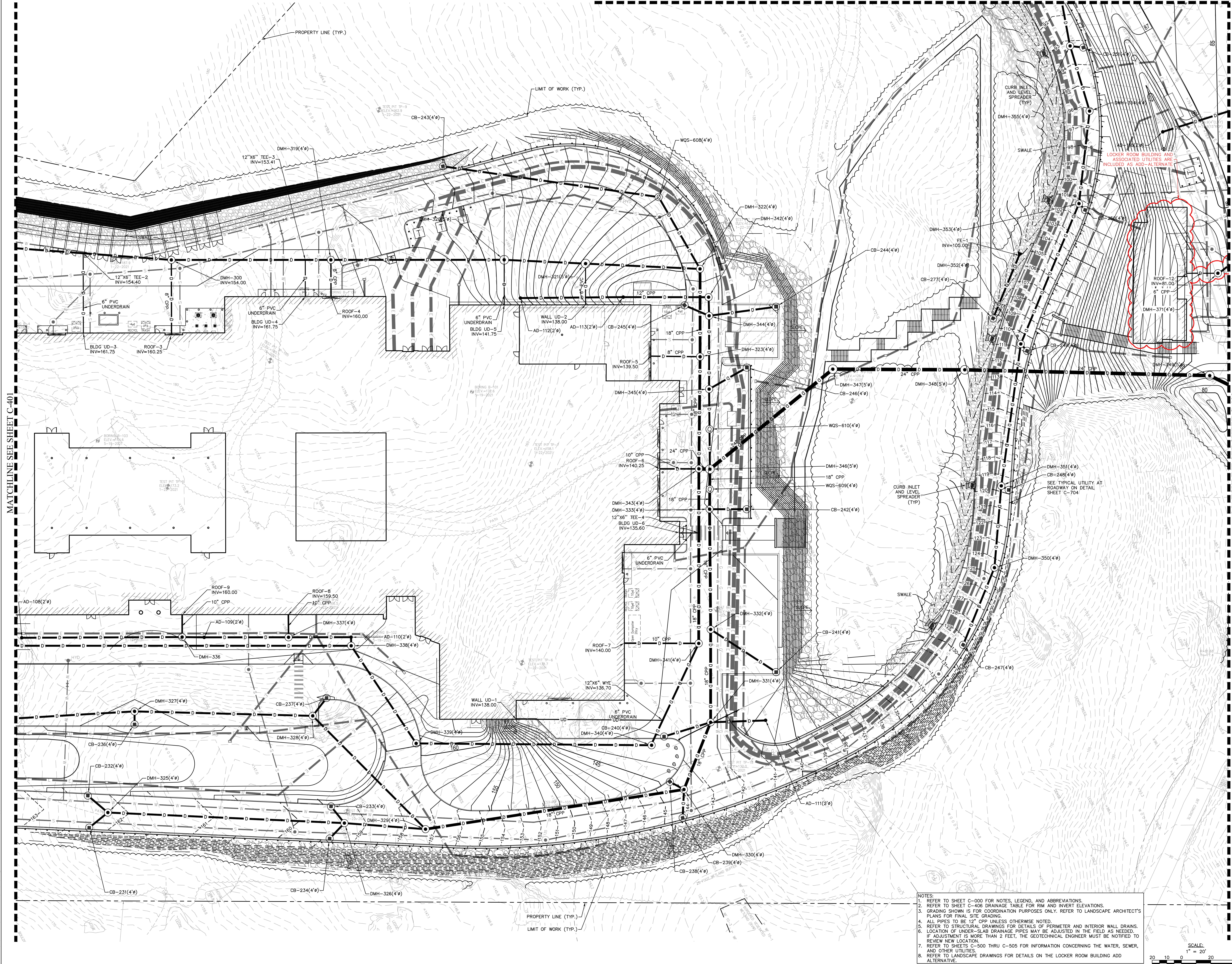
KEY MAP
SITE



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.
 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.
 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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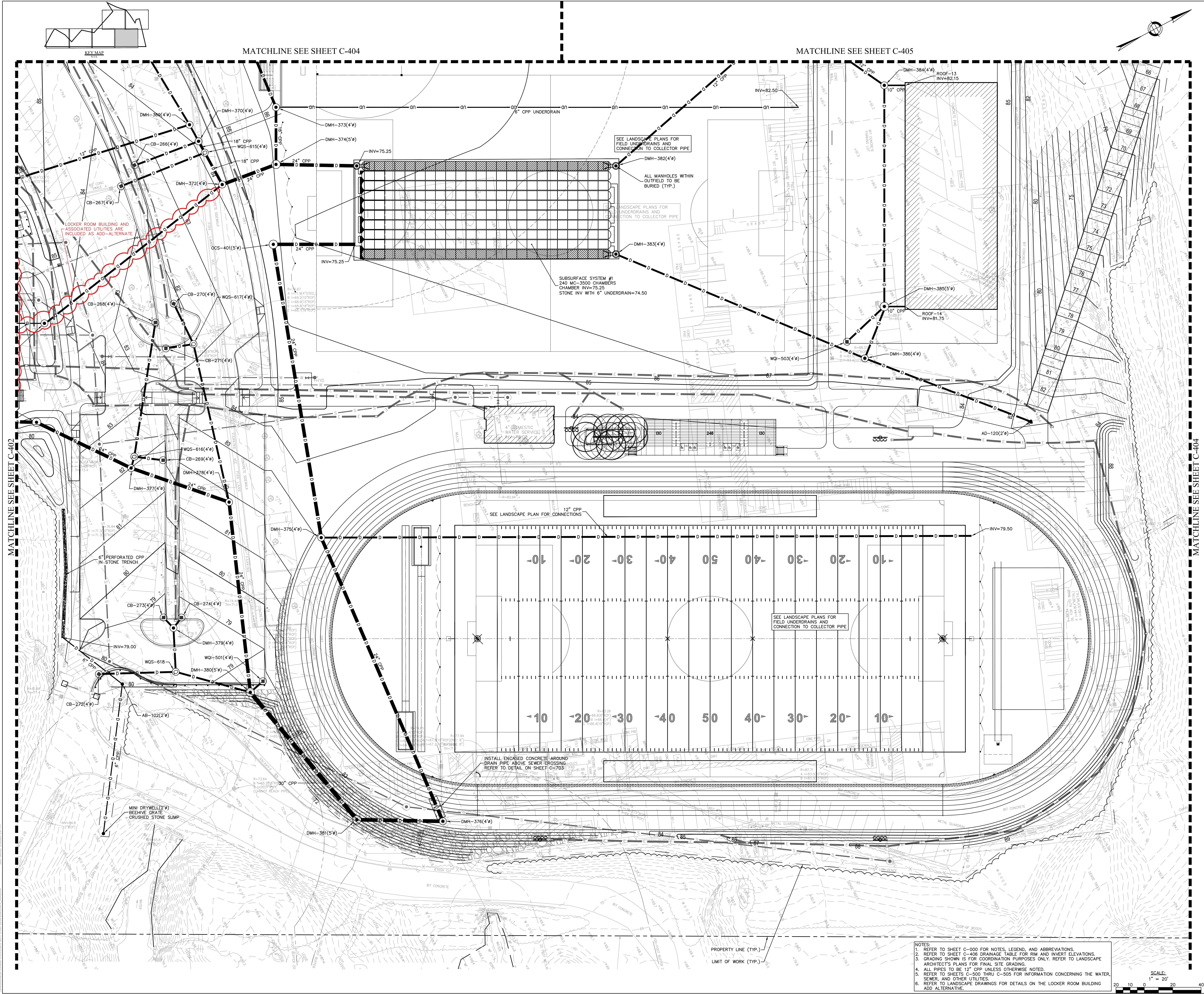
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DRAINAGE PLAN III

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

C-402



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NITSCH PROJECT No. 13872

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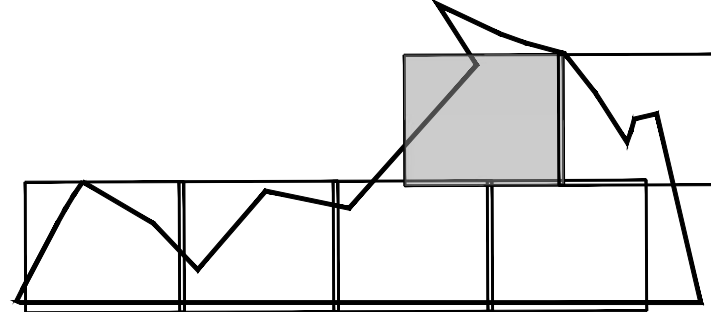
DRAINAGE PLAN IV

C-403

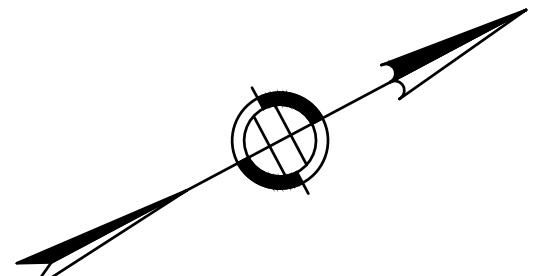
Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

NOTES:
1. REFER TO SHEET C-000 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. REFER TO SHEET C-106 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 UTILITIES.
6. REFER TO LANDSCAPE DRAWINGS FOR DETAILS ON THE LOCKER ROOM BUILDING ADD ALTERNATIVE.

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



KEY MAP
S15



DRA

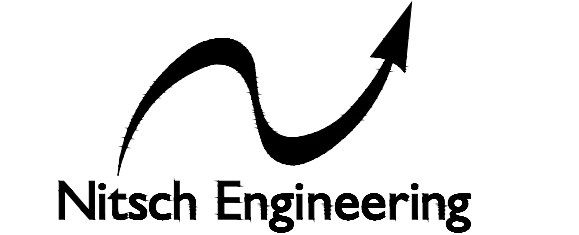
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DRAINAGE PLAN V

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

C-404



- 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.

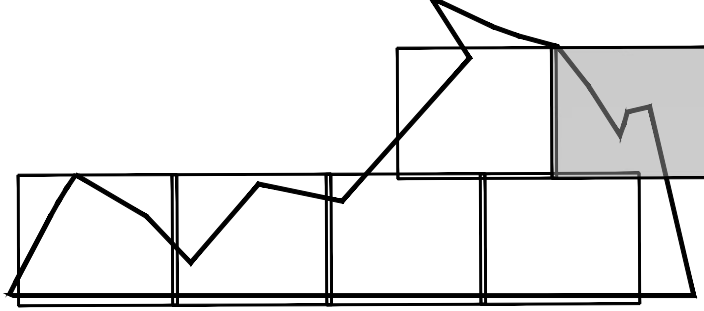
SCALE:
1" = 20'

20 10 0 10 20 40

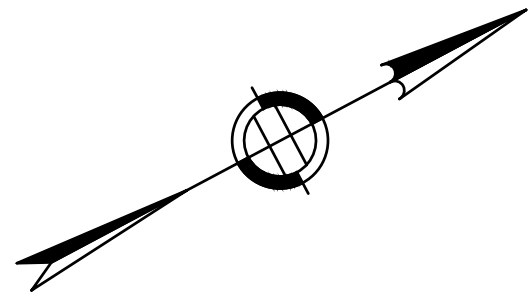
MATCHLINE SEE SHEET C-403

MATCHLINE SEE SHEET C-405

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KEY MAP
S178

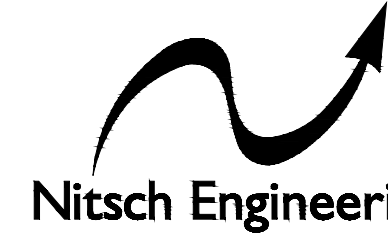


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NITSCH PROJECT No. 13872

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JANUARY 13, 2023

DRAINAGE PLAN VI

Scale: AS NOTED

Job No.: 13872

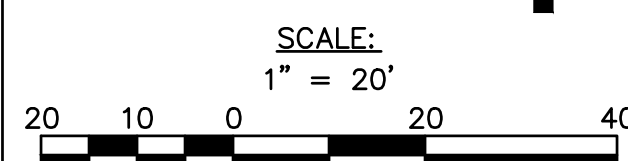
Drawn By: WL

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.
 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.



MATCHLINE SEE SHEET C-403

MATCHLINE SEE SHEET C-405

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UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED. DATE: 01/13/2023

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)	156.50	
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-6)	153.41 (DMH-319)	154.58	
12"x6" TEE-4	134.87 (DMH-341) 135.37 (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	160.35 (ROOF-11)	160.35 (WYE CONNECTION)	162.12	
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 (DMH-324)	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	
CB-261		81.00 (DMH-367)	85.00	
CB-262		85.40 (DMH-366)	89.40	
CB-263		95.80 (DMH-365)	99.80	
CB-264		95.60 (DMH-365)	99.60	
CB-265		80.50 (DMH-369)	84.00	
CB-266		78.80 (DMH-370)	82.30	
CB-267		78.90 (WQS-615)	82.40	
CB-268		78.05 (WQS-616)	82.05	
CB-269		77.75 (WQS-616)	81.75	
CB-270		78.25 (WQS-617)	81.75	
CB-271		78.30 (WQS-617)	82.30	
CB-272		76.00 (WQS-618)	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	
LS-1	129.50 (OCS-405)		130.65	
LS-2	126.00 (OCS-404)		127.43	
LS-3	127.00 (AD-101)		127.75	
LS-4	158.15 (WYE CONNECTION)		159.32	
MINI DRYWELL	75.00 (AB-102)		77.00	
OCS-401	74.50 (BASIN1-OUT)	74.50 (DMH-375)	78.07	
OCS-402	74.00 (BASIN2-OUT)	73.25 (HEADWALL-3)	77.32	
OCS-403	150.00 (BASIN3-OUT) 150.00 (STRUCTURE - (579))	150.00 (HEADWALL-2)	161.80	
OCS-404	126.50 (BASIN4-OUT) 126.50 (STRUCTURE - (568))	126.50 (LS-2)	131.32	
OCS-405	133.50 (BASIN5-OUT) 133.50 (STRUCTURE - (570))	133.50 (LS-1)	140.90	
ROOF-1		159.75 (DMH-317)	160.44	
ROOF-2		160.00 (DMH-318)	160.23	
ROOF-3		160.25 (DMH-300)	160.25	
ROOF-4		160.00 (DMH-319)	160.23	
ROOF-5		139.50 (DMH-323)	140.25	
ROOF-6		140.25 (DMH-343)	141.16	
ROOF-7		140.00 (DMH-341)	140.94	
ROOF-8		159.50 (DMH-337)	156.94	

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		78.50 (WQS-614)	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-608)		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	
DMH-301	130.00 (CB-201) 130.00 (CB-202)	129.65 (DMH-302)	132.90	
DMH-302	127.95 (DMH-301) 127.95 (CB-204) 127.95 (CB-203)	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) 155.00 (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	
ROOF-9		160.00 (DMH-336)	160.44	
ROOF-10		160.00 (DMH-335)	160.44	
ROOF-11		160.50 (AB-101)	160.25	
ROOF-12		81.00 (DMH-371)	81.57	
ROOF-13		82.15 (DMH-384)	83.09	
ROOF-14		81.75 (DMH-385)	82.69	
ST-OUT	79.00 (UNDERDRAIN)	79.00 (AB-102)	-3.88	
UD-1		82.50 (DMH-373)	-2.97	
UD-2		83.00 ()	83.57	
UD-3		79.50 (DMH-375)	80.66	
WALL UD-1		138.00 (12"x6" WYE)	-2.97	
WALL UD-2		138.00 (DMH-321)	138.54	
WQI-501		74.25 (DMH-380)	78.25	
WQI-502		82.00 (DMH-384)	86.27	
WQI-503		82.00 (DMH-385)	86.27	
WQS-601	127.40 (DMH-302)	127.40 (BASIN4-IN-1)	131.78	
WQS-602	127.80 (DMH-303)	127.80 (BASIN4-IN-2)	136.10	
WQS-603	135.20 (DMH-304)	135.20 (BASIN5-IN-1)	144.68	

STORM DRAINAGE - INVERT TABLE				
STRUCTURE	INV IN	INV OUT	RIM	
CB-207		150.75 (OCS-403)	151.91	
BASIN3-OUT			132.60	
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	
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) 141.00 (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-324	158.50 (AD-106)	158.50 (WYE CONNECTION)	162.27	
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) 136.80 (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) 154.80 (AD-110)	153.90 (DMH-339)	162.30	

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
WQS-604	152.25 (DMH-306)	152.25 (BASIN3-IN-3)	162.30
WQS-605	152.75 (DMH-308)	152.65 (BASIN3-IN-4)	162.50
WQS-606	150.25 (DMH-309)	150.15 (BASIN3-IN-1)	158.50
	150.25 (DMH-312)		
WQS-607	152.30 (DMH-311)	152.10 (BASIN3-IN-2)	159.70
	152.30 (DMH-316)		
WQS-608	143.70 (CB-243)	143.50 (DMH-322)	149.00
WQS-609	135.40 (DMH-333)	135.20 (DMH-346)	142.90
WQS-610	137.00 (DMH-345)	137.00 (DMH-346)	143.10
WQS-611	85.50 (CB-275)	85.30 (EX-DMH-1)	89.42
	85.50 (CB-276)		
WQS-612	78.30 (DMH-362)	78.30 (DMH-363)	87.50
WQS-614	77.80 (DMH-368)	77.60 (DMH-373)	85.50
	78.00 (AB-117)		
WQS-615	78.00 (DMH-370) 78.20 (CB-267)	77.80 (DMH-372)	84.30
WQS-616	77.50 (CB-268)	77.30 (DMH-377)	82.30
	77.50 (CB-269)		
WQS-617	78.00 (CB-270)	77.50 (DMH-378)	82.50
	78.00 (CB-271)		
WQS-618	74.00 (DMH-379)	73.80 (DMH-380)	79.65
	74.00 (CB-272)		
WYE CONNECTION	158.32 (DMH-324) 158.32 (AB-101)	158.32 (LS-4)	159.49



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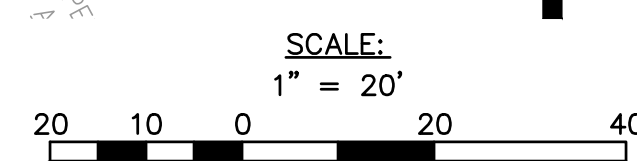
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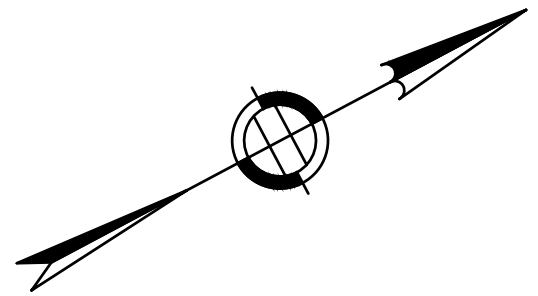
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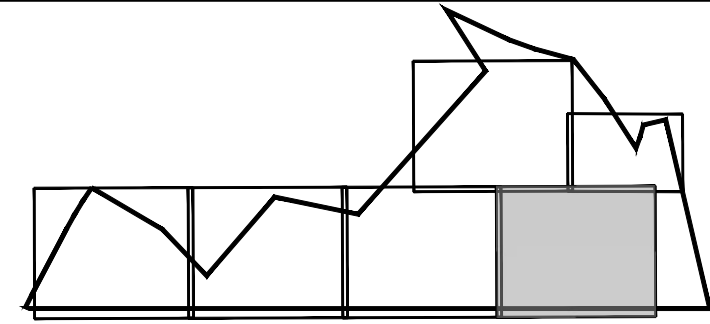
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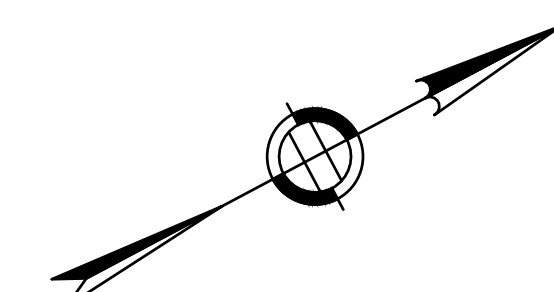
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Job No.: 13872
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C-501



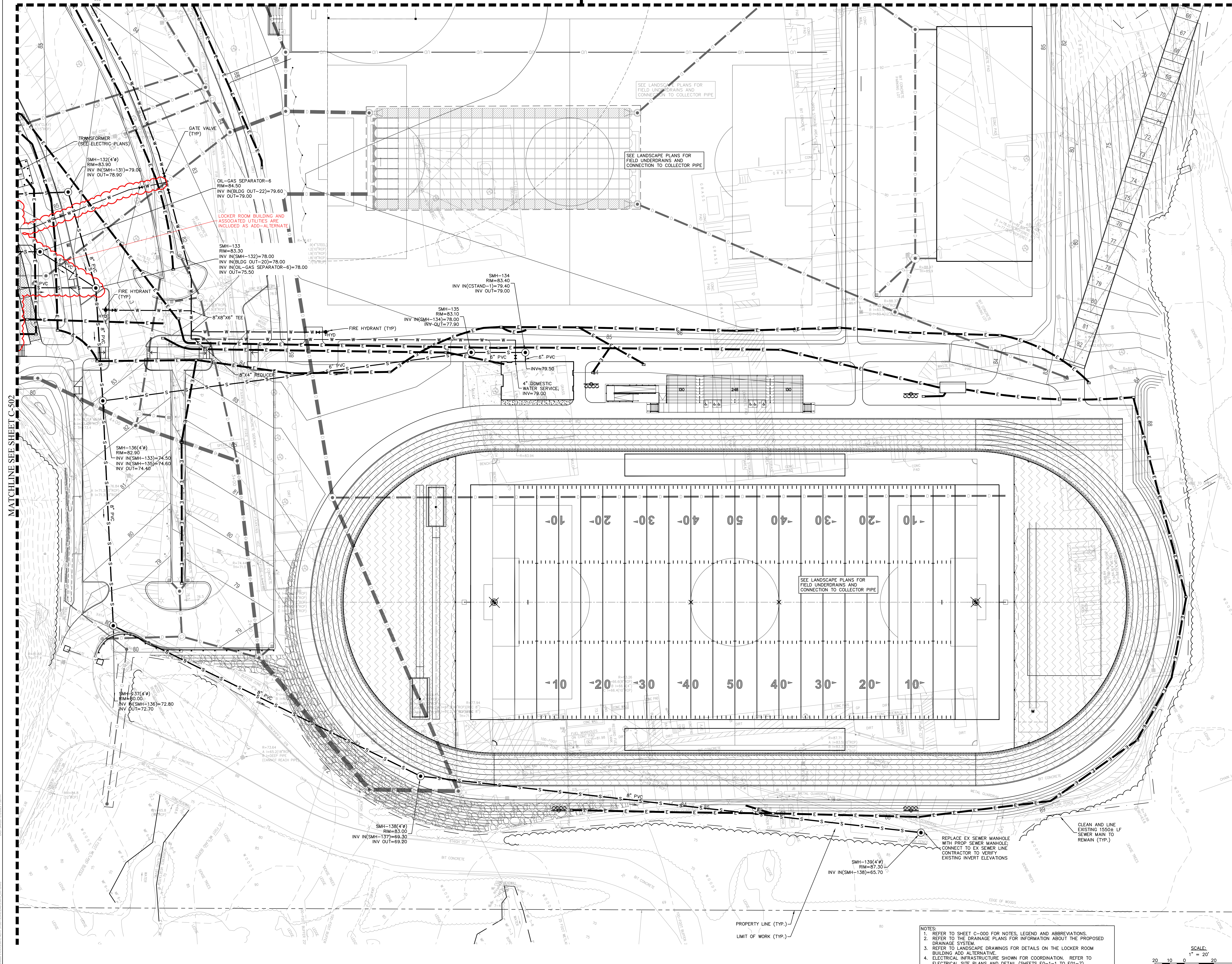
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MATCHLINE SEE SHEET C-505

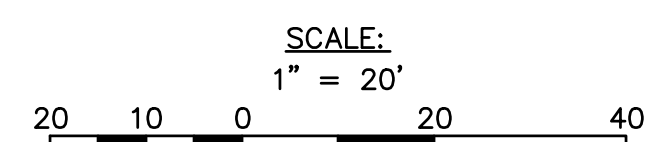


MATCHLINE SEE SHEET C-502

PROJECT NO. 13872
DATE: JANUARY 13, 2023
DRAWN BY: WL
CHECKED BY: [Signature]
DATE: JANUARY 13, 2023



- 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 E0-1-1 TO E01-7).



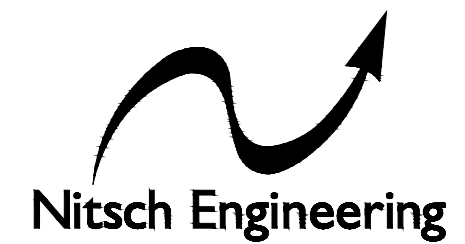
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JANUARY 13, 2023

**UTILITY SITE PLAN
IV**

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

C-503



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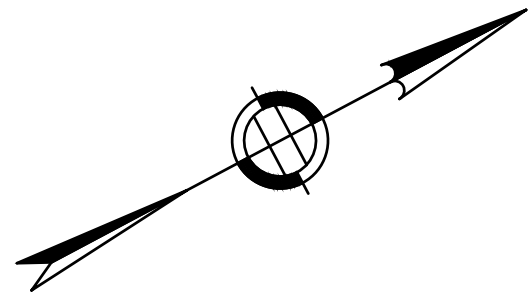
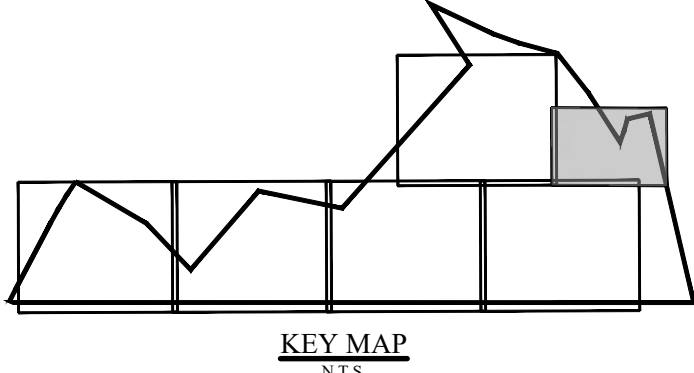


SCALE:
1" = 20'

A horizontal scale bar with alternating black and white segments. The segments are labeled 20, 10, 0, 10, 20 from left to right, indicating distances in feet. The total length of the bar is 60 feet.

JANUARY 13, 2023

C-504

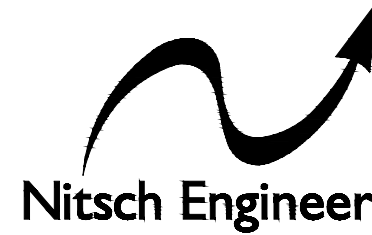


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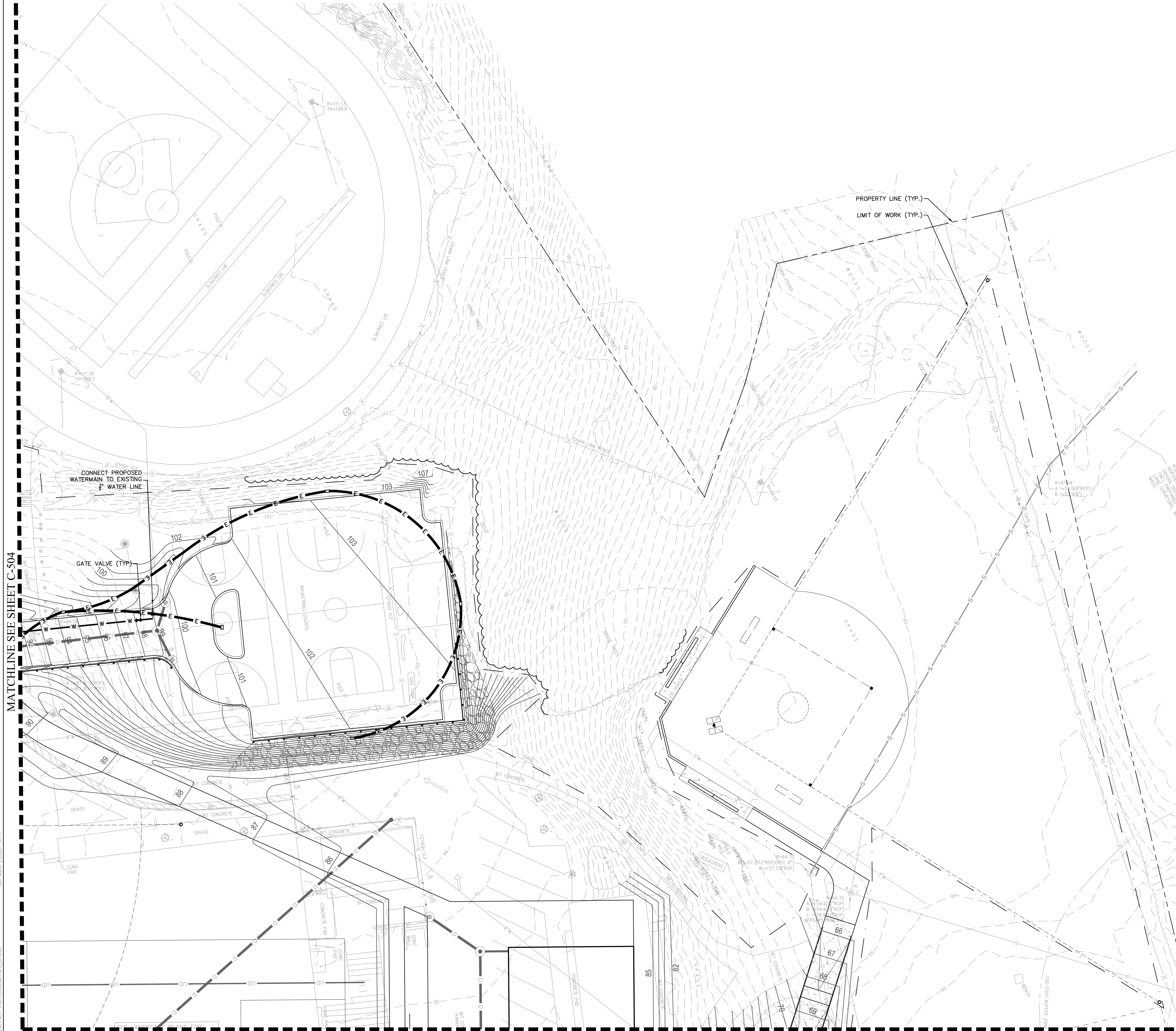
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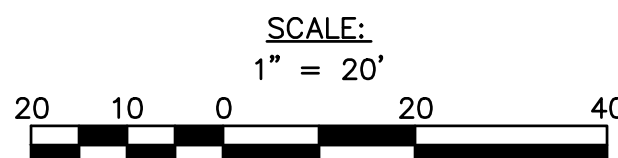
UTILITY SITE PLAN
VI

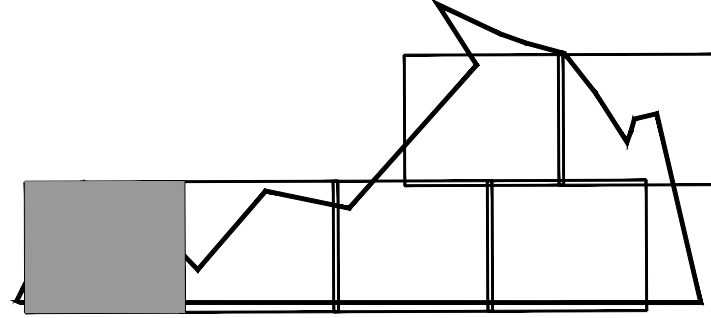
Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-505

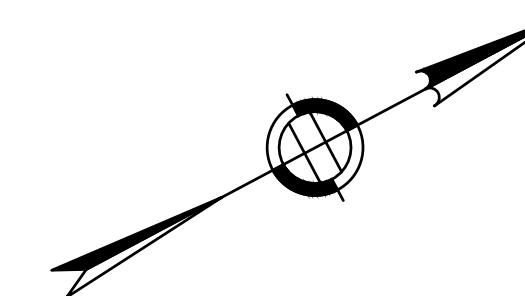


- NOTES:
1. REFER TO SHEET C-000 FOR NOTES, LEGEND AND ABBREVIATIONS.
 2. REFER TO THE DRAINAGE PLANS FOR INFORMATION ABOUT THE PROPOSED DRAINAGE SYSTEM.
 3. ELECTRICAL INFRASTRUCTURE SHOWN FOR COORDINATION. REFER TO ELECTRICAL SITE PLANS AND DETAIL (SHEETS E0-1-1 TO E01-7).





KEY MAP
S18



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

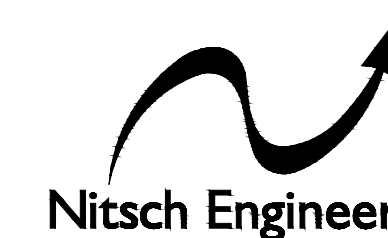
MATCHLINE SEE SHEET C-601

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DRIVEWAY
LAYOUT AND
GRADING PLAN I

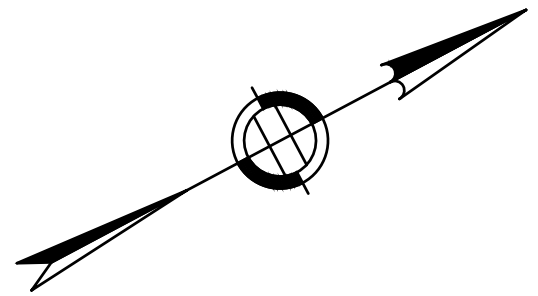
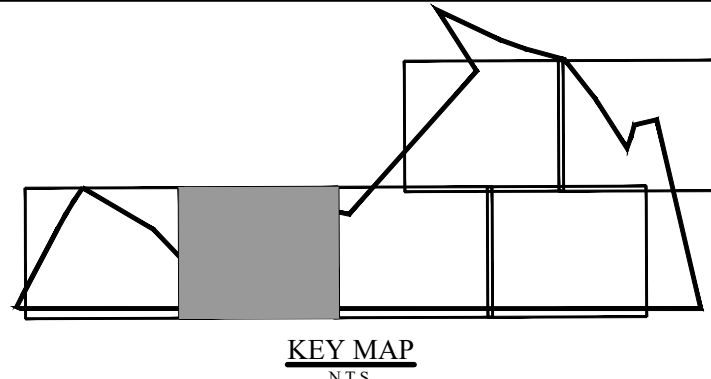
Scale: AS NOTED

Job No.: 13872

Drawn By: WCL

Date: JANUARY 13, 2023

C-600



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**DRIVEWAY
LAYOUT AND
GRADING PLAN II**

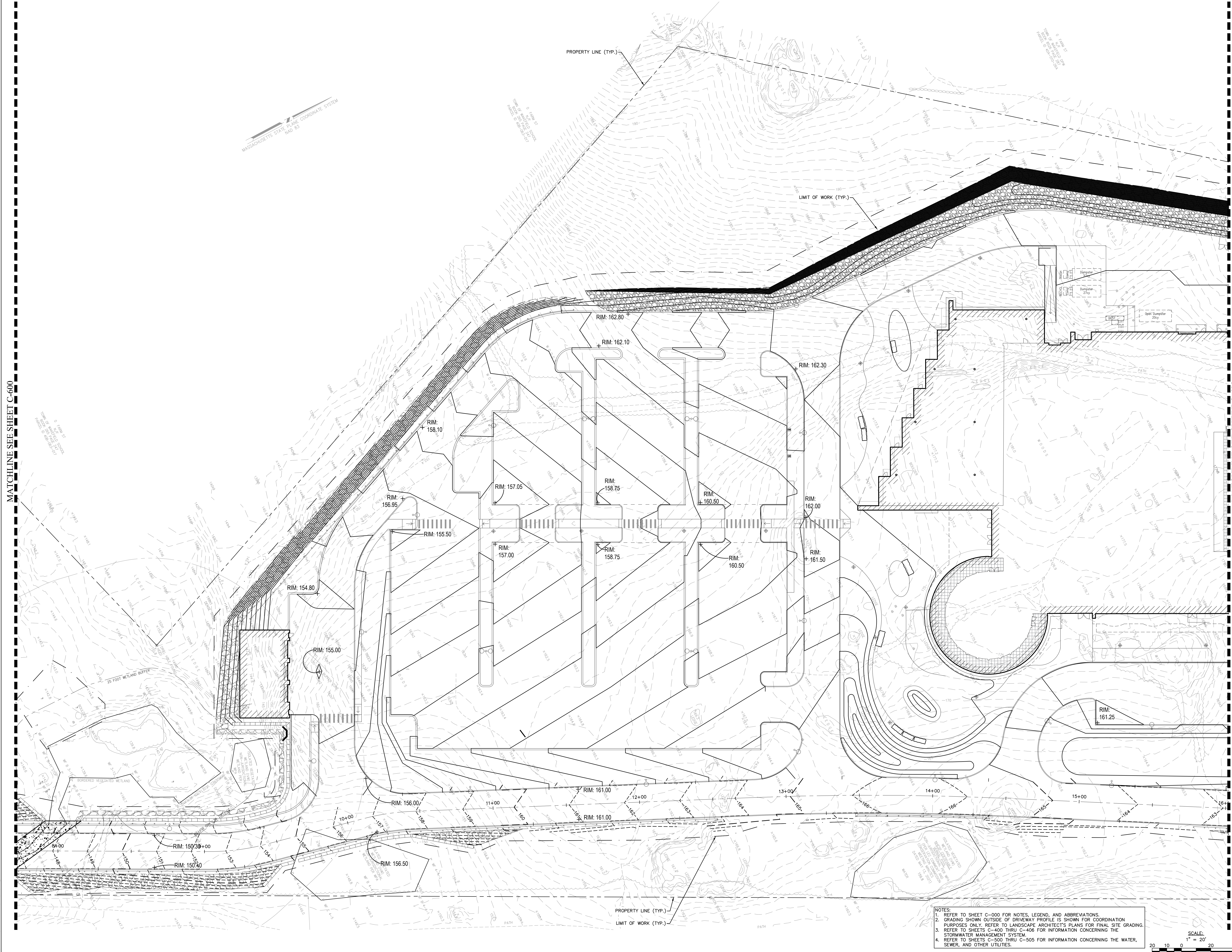
Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023

C-601

MATCHLINE SEE SHEET C-600

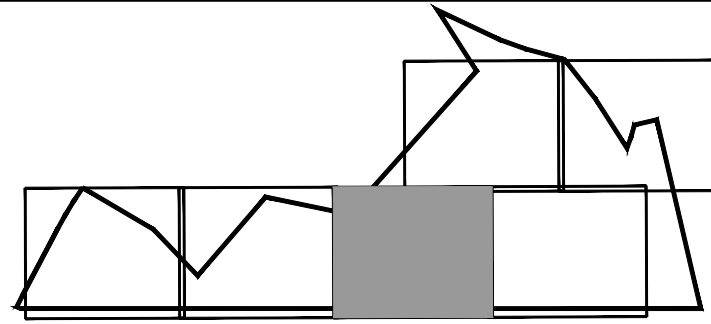
MATCHLINE SEE SHEET C-602

DATE: 01/13/2023
DRAWN BY: WL
CHECKED BY: WL
PROJECT: NORTHEAST METROPOLITAN REGIONAL VOCATIONAL HIGH SCHOOL
SHEET: C-601

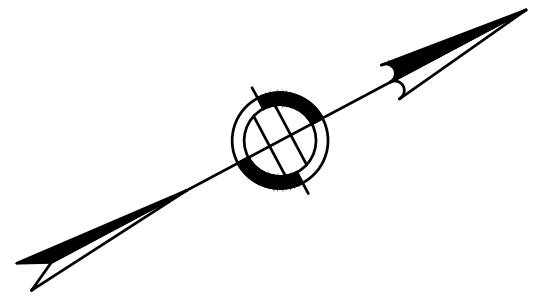


NOTES:
1. REFER TO SHEET C-600 FOR NOTES, LEGEND, AND ABBREVIATIONS.
2. GRADING SHOWN OUTSIDE OF DRIVEWAY PROFILE IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR FINAL SITE GRADING.
3. REFER TO SHEETS C-400 THRU C-406 FOR INFORMATION CONCERNING THE STORMWATER MANAGEMENT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



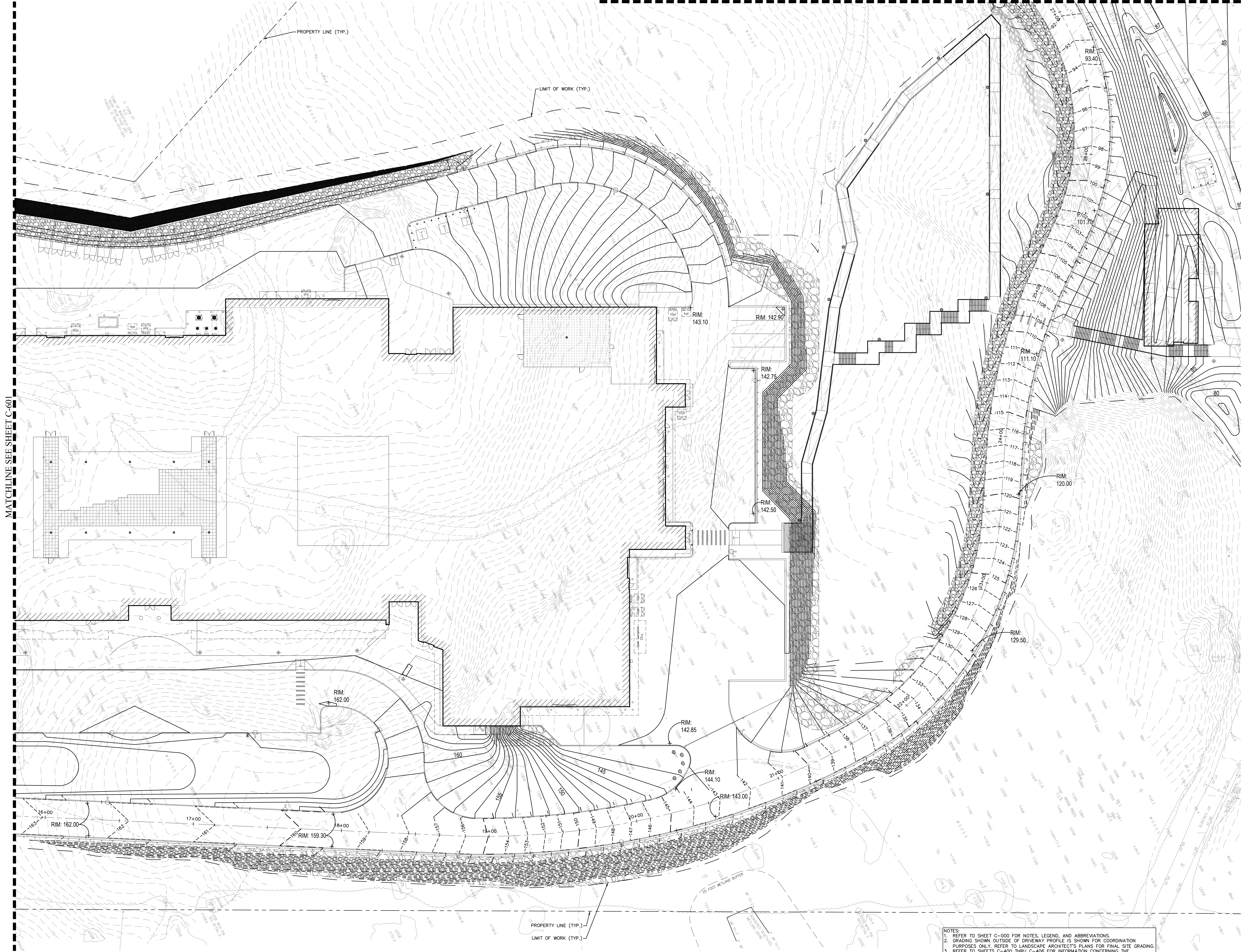
KEY MAP
S178



MATCHLINE SEE SHEET C-603

MATCHLINE SEE SHEET C-601

DATE: 01/03/2021
DRAWN BY: J. B. BROWN
CHECKED BY: J. B. BROWN
SCALE: 1" = 20'



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'

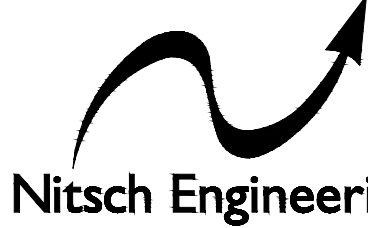


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DRIVEWAY
LAYOUT AND
GRADING PLAN III

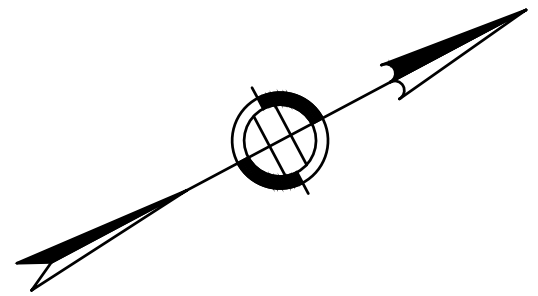
Scale: AS NOTED

Job No.: 13872

Drawn By: WCL

Date: JANUARY 13, 2023

C-602



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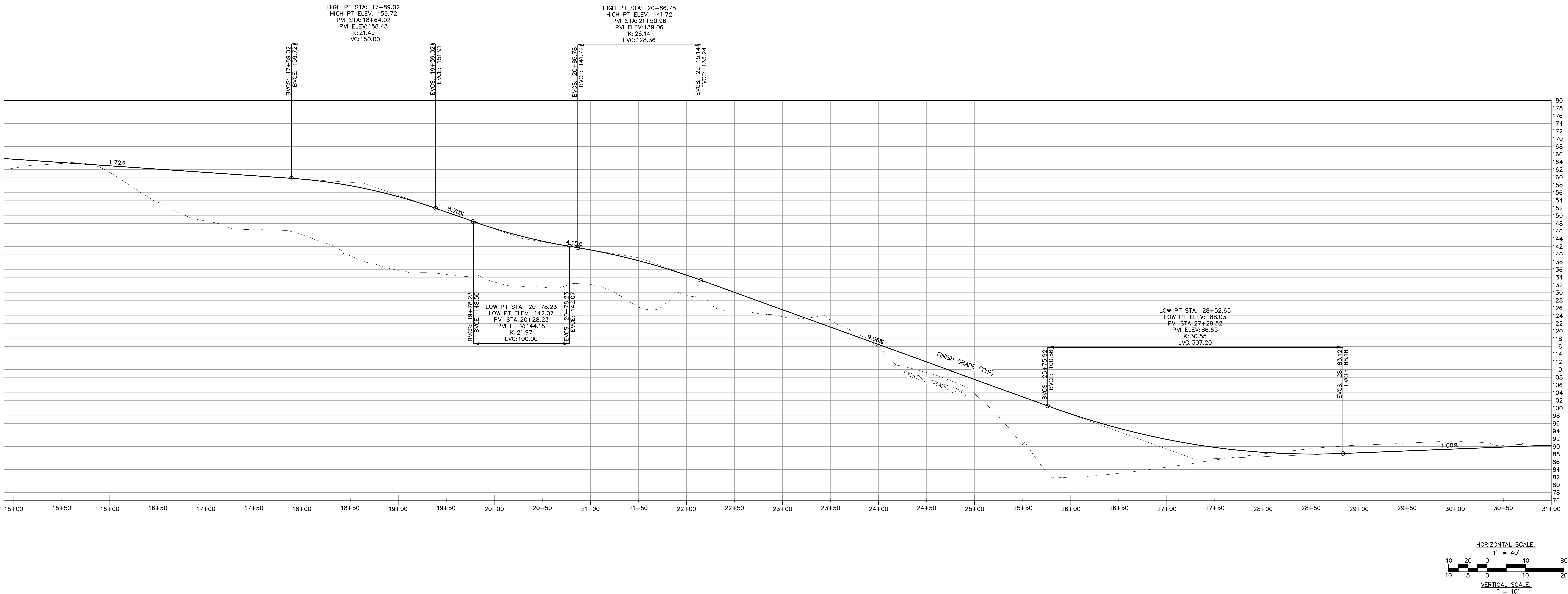
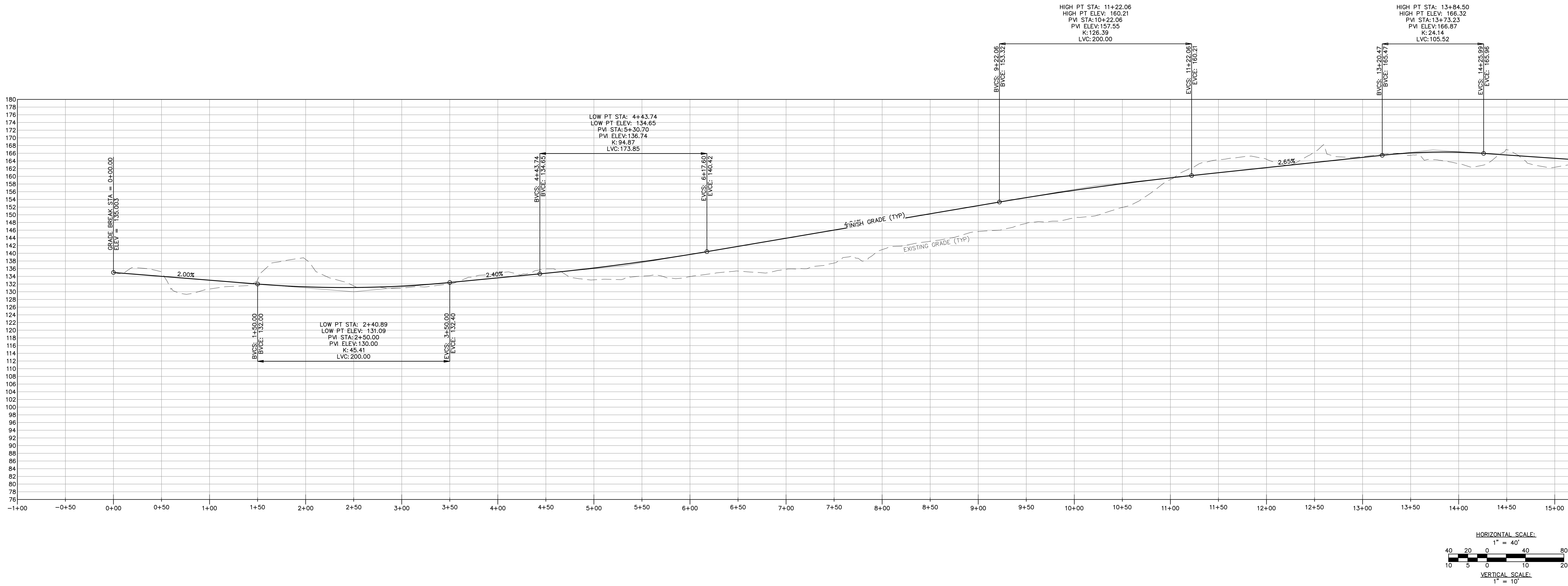


JANUARY 13, 2023

Sale: AS NOTED
 Job No.: 13872
 Drawn By: WL
 Date: JANUARY 10, 2000

C-603

C-603



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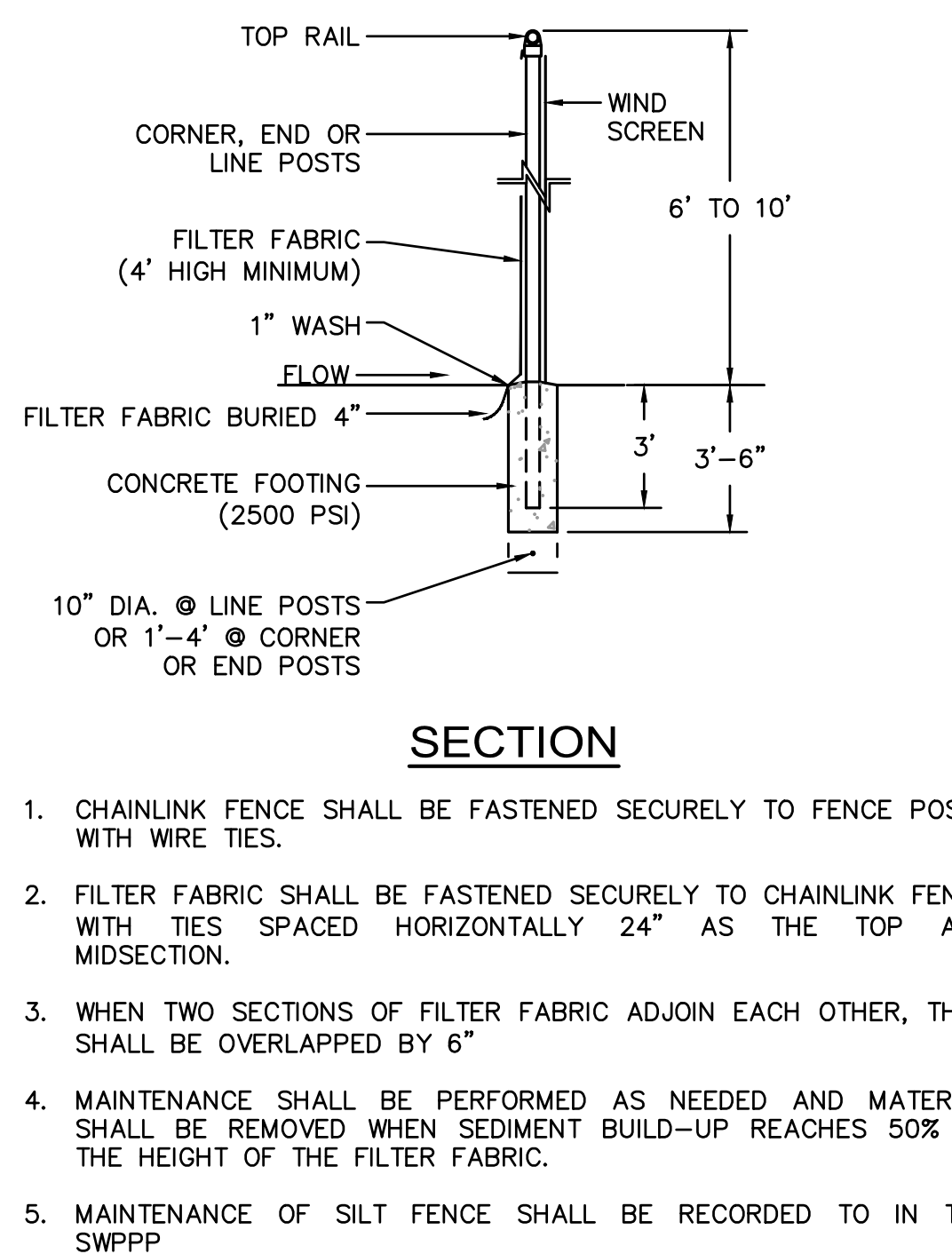
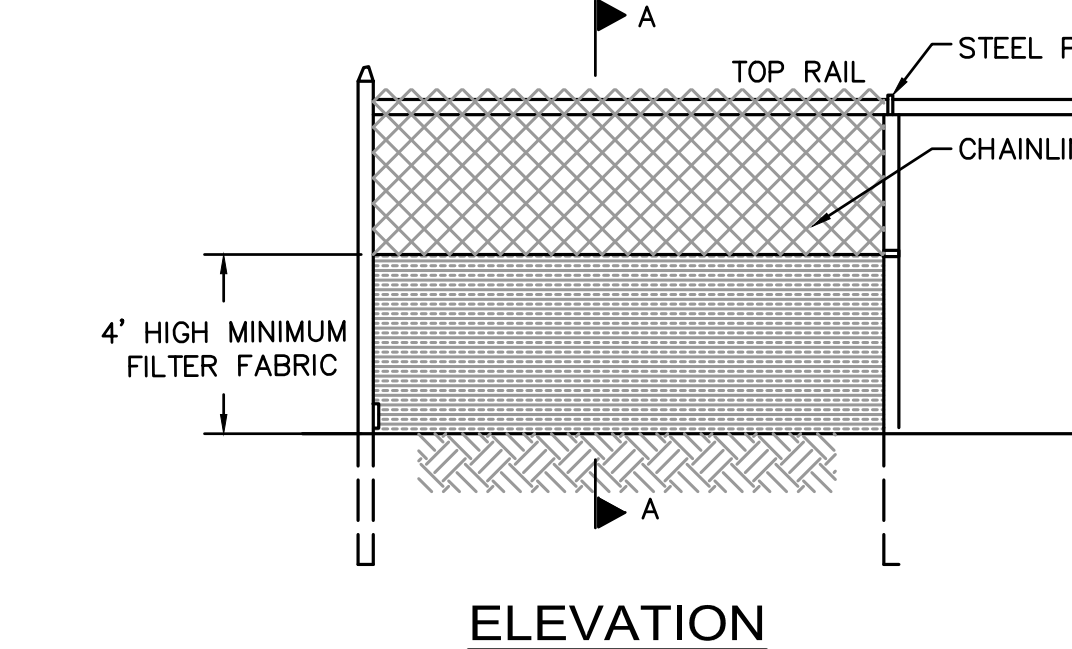
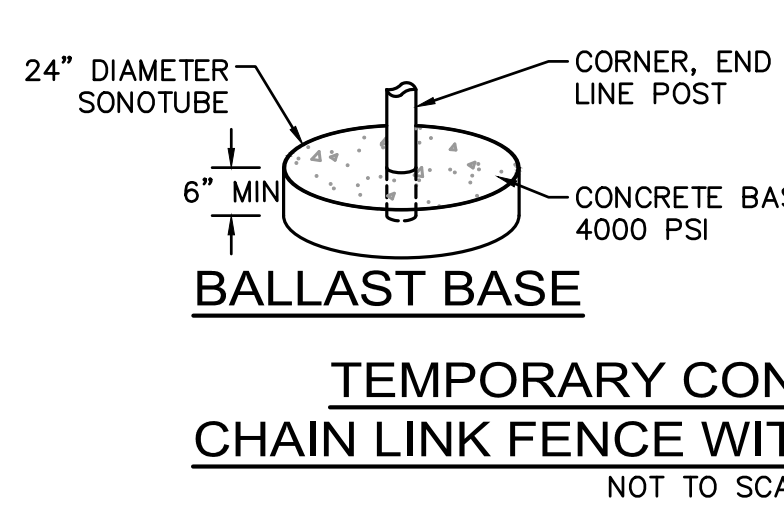
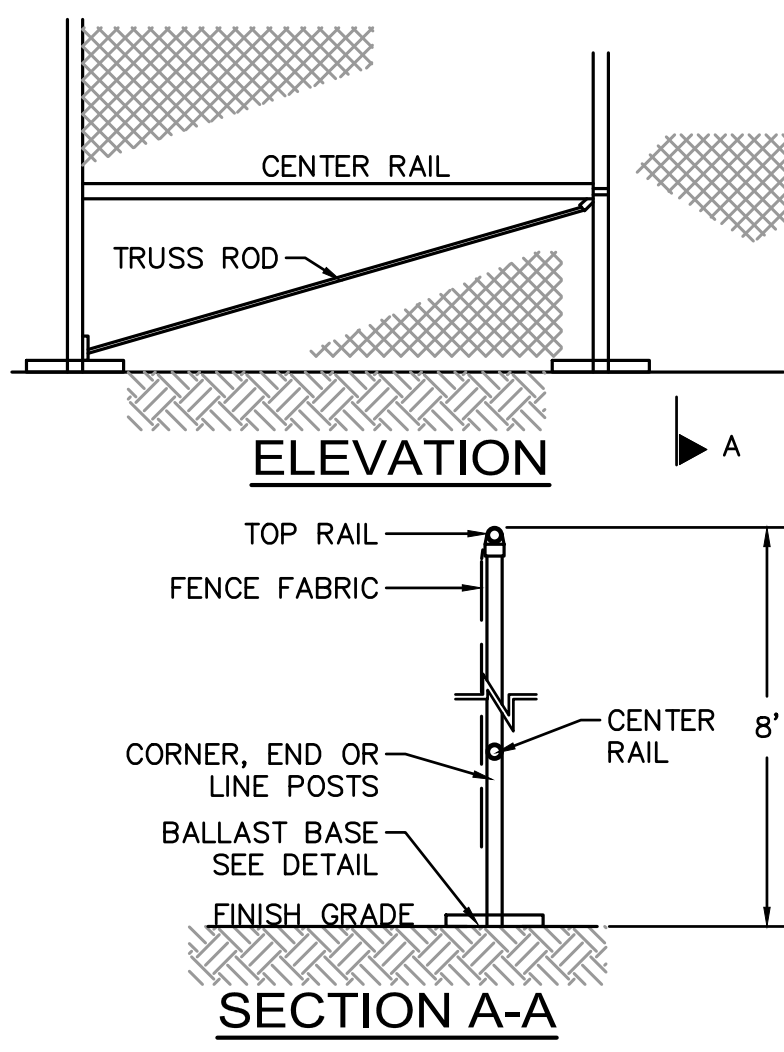
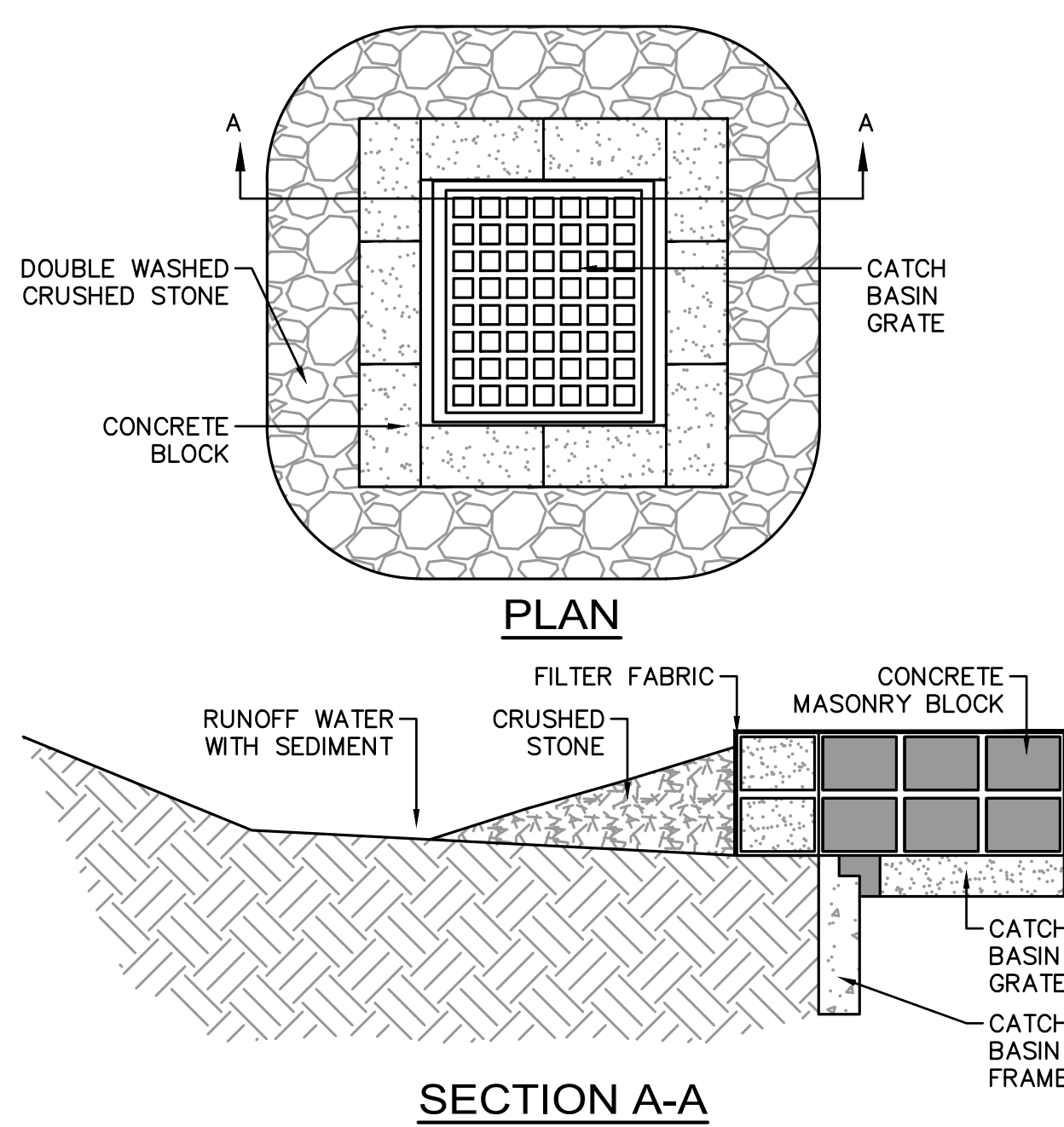
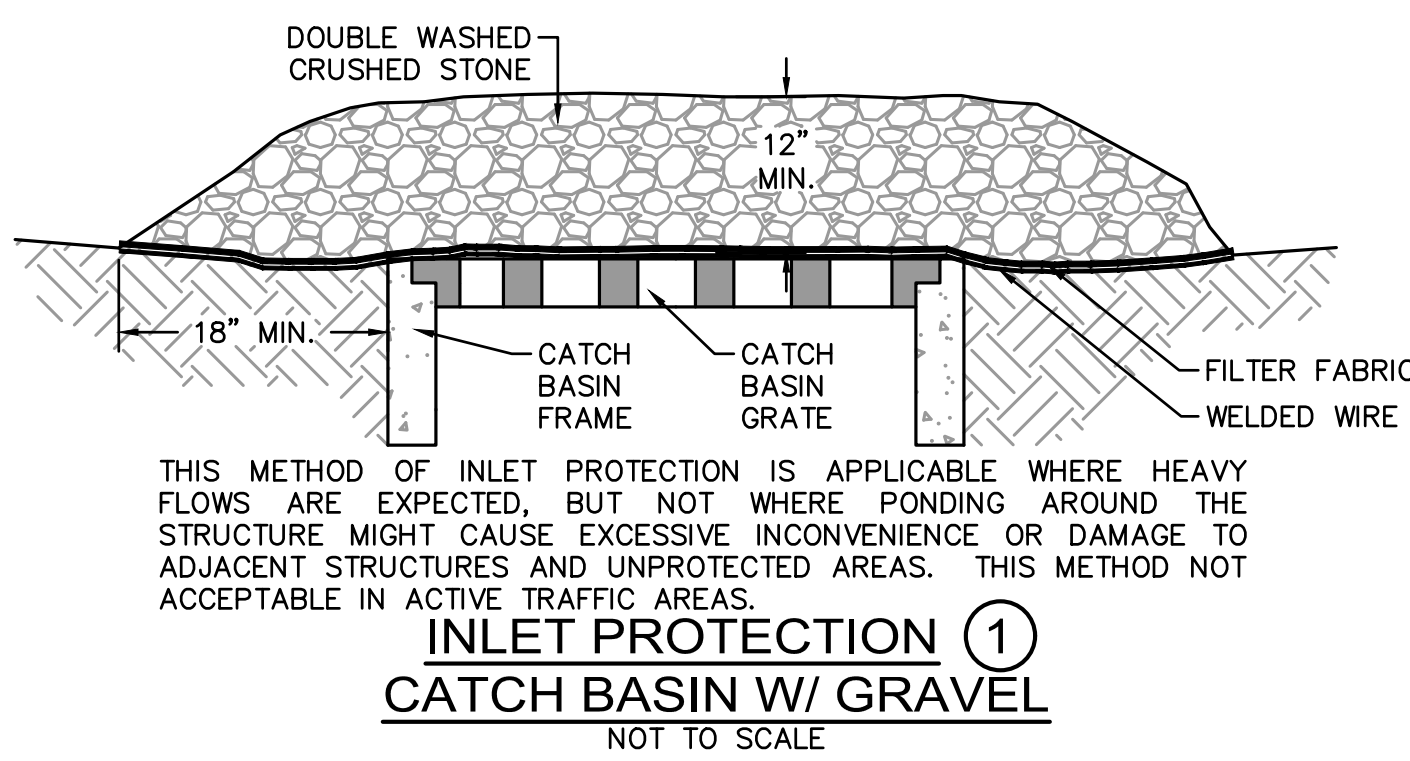
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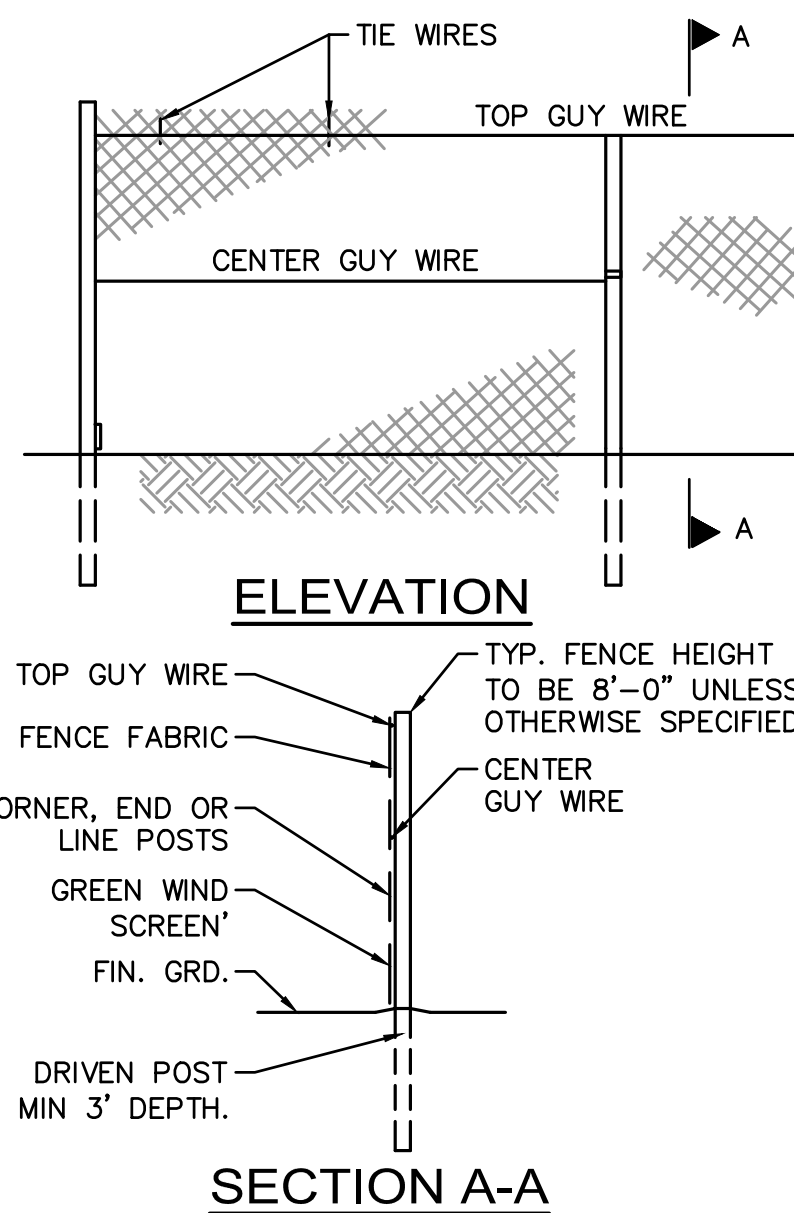
**DRIVEWAY
PROFILE**

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023
C-604



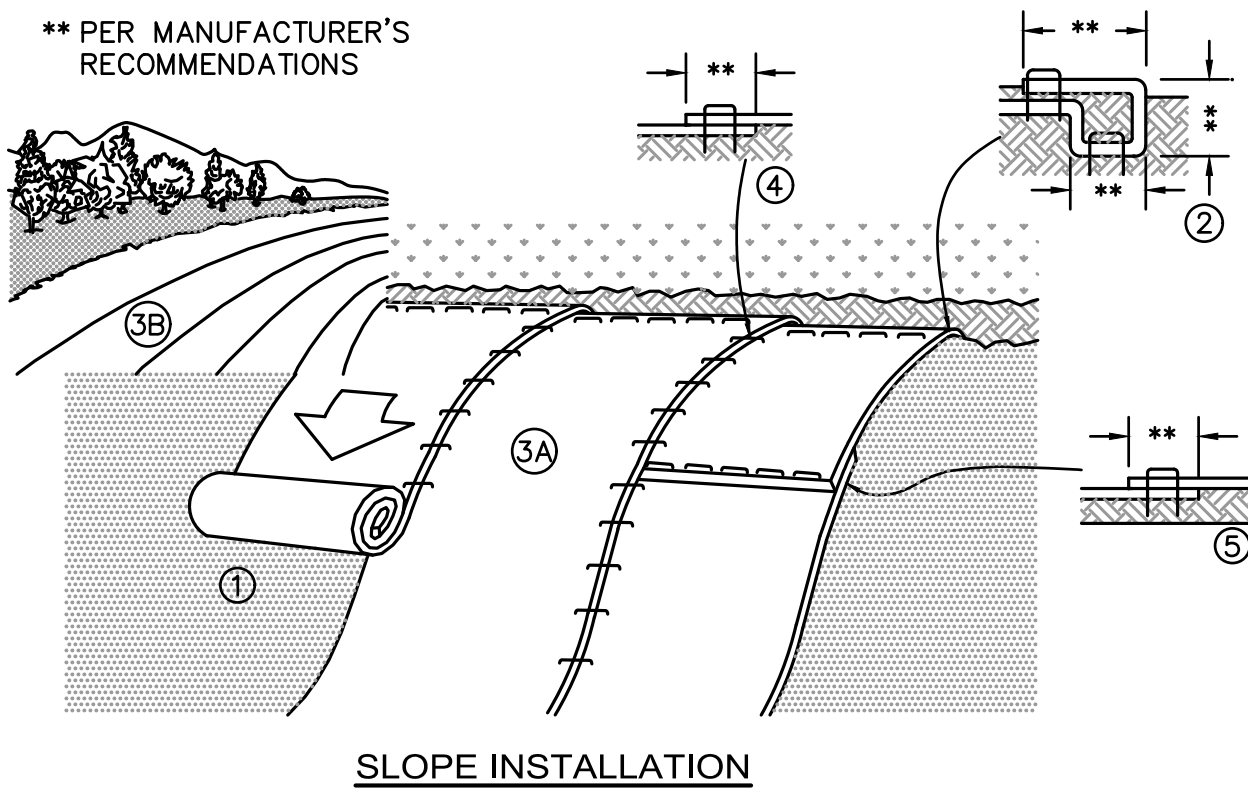
EROSION CONTROL BARRIER SUPER SILT FENCE

NOT TO SCALE



CHAIN LINK CONSTRUCTION FENCE

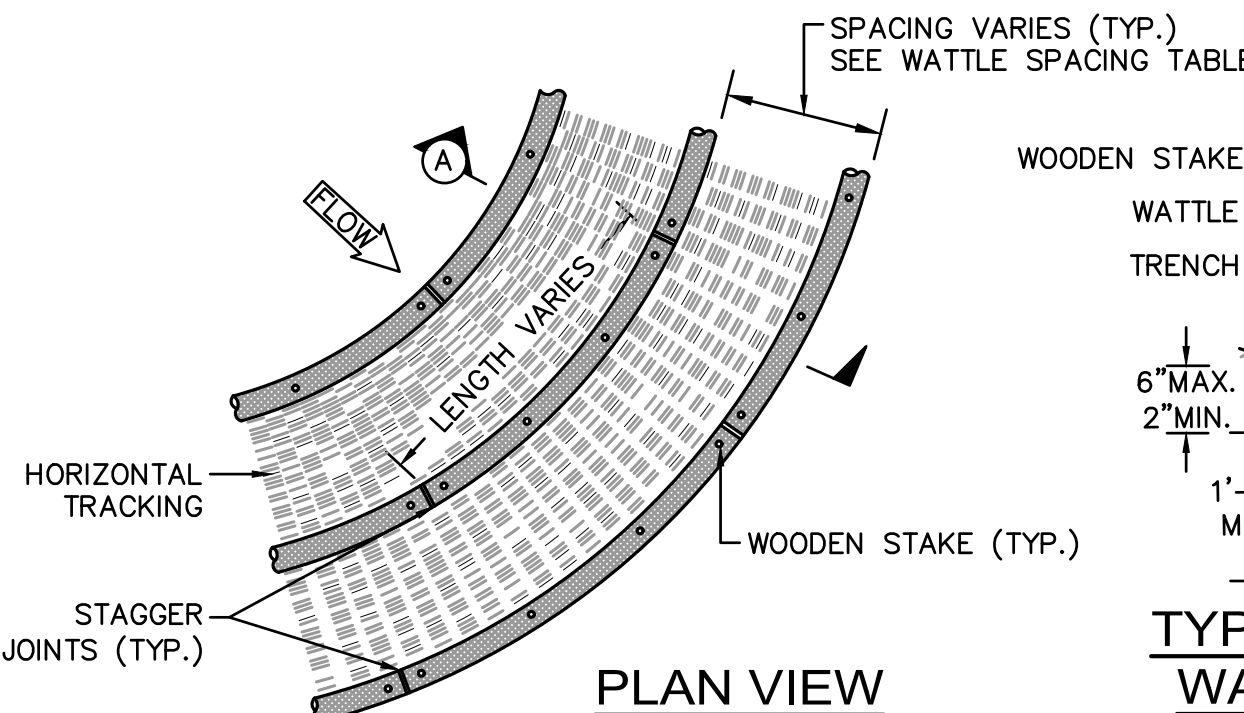
NOT TO SCALE



- NOTES:
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 AND FOLD REMAINING PORTION OF ECB'S BACK OVER SEED AND COMPACTED SOIL. SECURE ECB'S OVER COMPACTED SOIL WITH A ROW OF STAKES/STAPLES SPACED 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. ALL ECB'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES/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 SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN OVERLAP (SEE THE MANUFACTURER'S RECOMMENDATIONS). STAKE/STAPLE THROUGH OVERLAPPED 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.

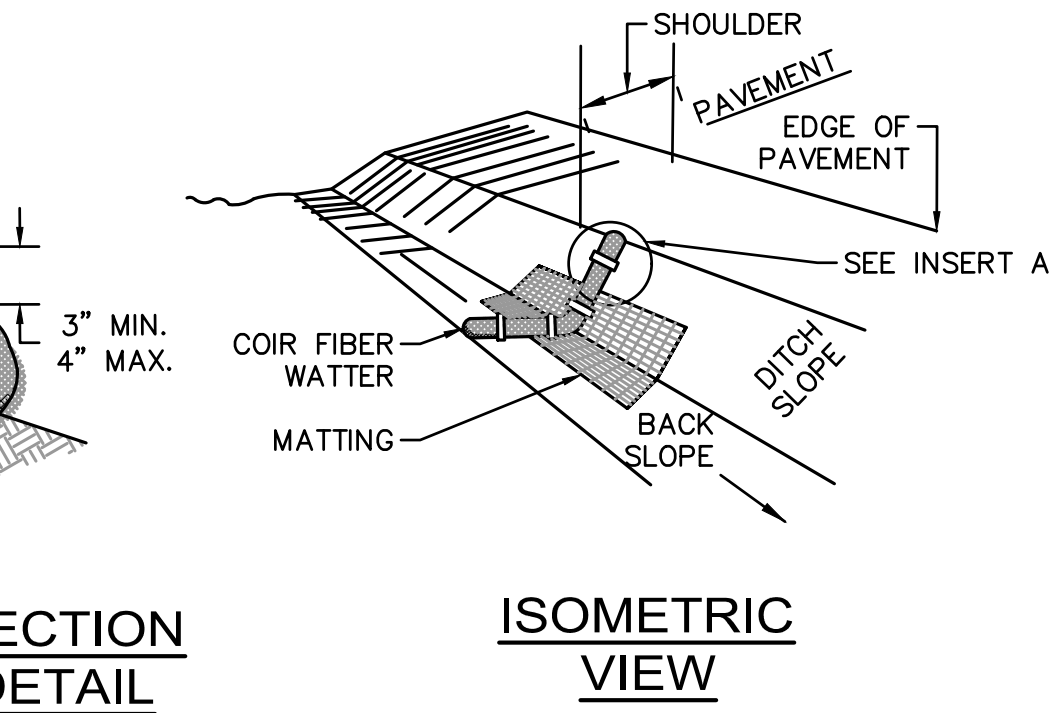
TEMPORARY EROSION CONTROL BLANKET FOR STEEP SLOPES DETAIL

NOT TO SCALE



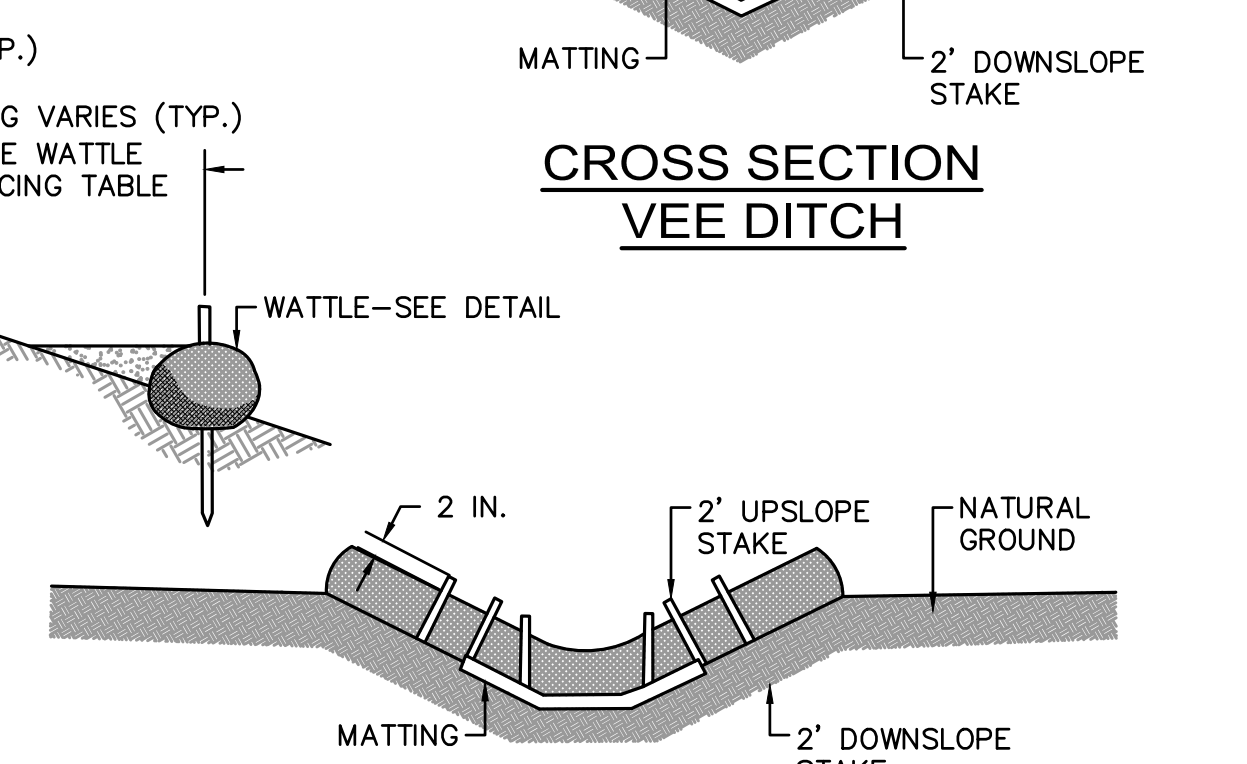
TYPICAL SECTION WATTLE DETAIL

NOT TO SCALE



CROSS SECTION VEE DITCH

NOT TO SCALE



CROSS SECTION TRAPEZOIDAL DITCH

NOT TO SCALE

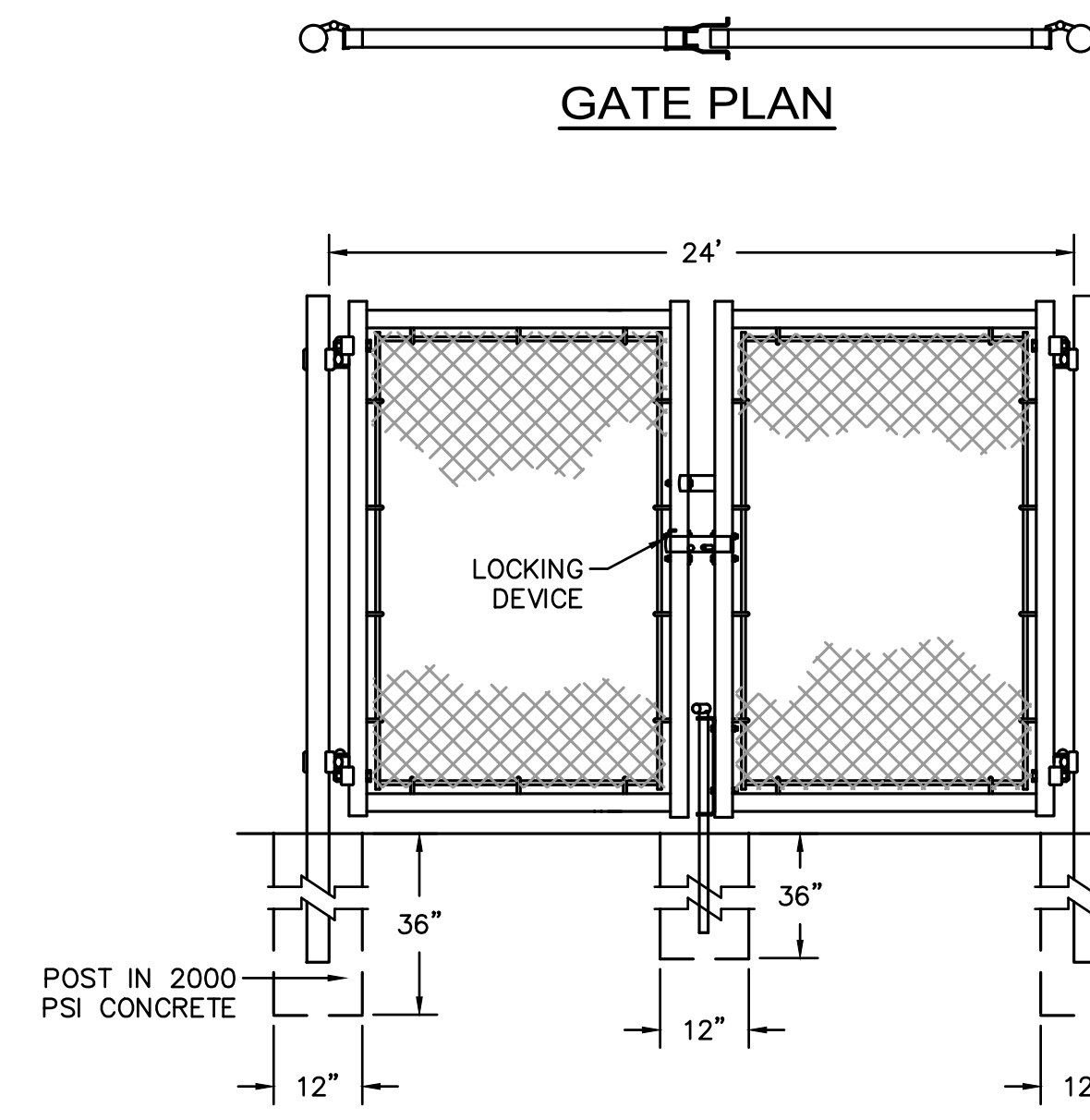
- TYPES OF WATTLES
- COIR (COCONUT FIBER)
 - COMPOST
 - STRAW

EROSION CONTROL BARRIER WATTLES - STEEP SLOPE PROTECTION

NOT TO SCALE

CONSTRUCTION FENCE AND GATE NOTES

1. FABRIC SHALL BE 0.148" WIRE, WOVEN INTO APPROXIMATELY 2" DIAMOND MESH.
2. THE FENCE FABRIC SHALL BE ZINC COATED STEEL OR ALUMINUM COATED STEEL.
3. FENCE POSTS SHALL RECEIVE THE SAME COATING AND TREATMENT AS THE FENCE FABRIC (DESCRIBED ABOVE).
4. THE CONTRACTOR SHALL ADD A GREEN WIND SCREEN.
5. LINE POSTS SHALL BE 2 1/2" O.D. END OR CORNER POSTS SHALL BE 3" O.D.
6. THE CONTRACTOR IS RESPONSIBLE FOR SURFACE RESTORATION ONCE THE FENCE IS REMOVED.
7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY CONSTRUCTION FENCE AT THE CONCLUSION OF THE PROJECT.

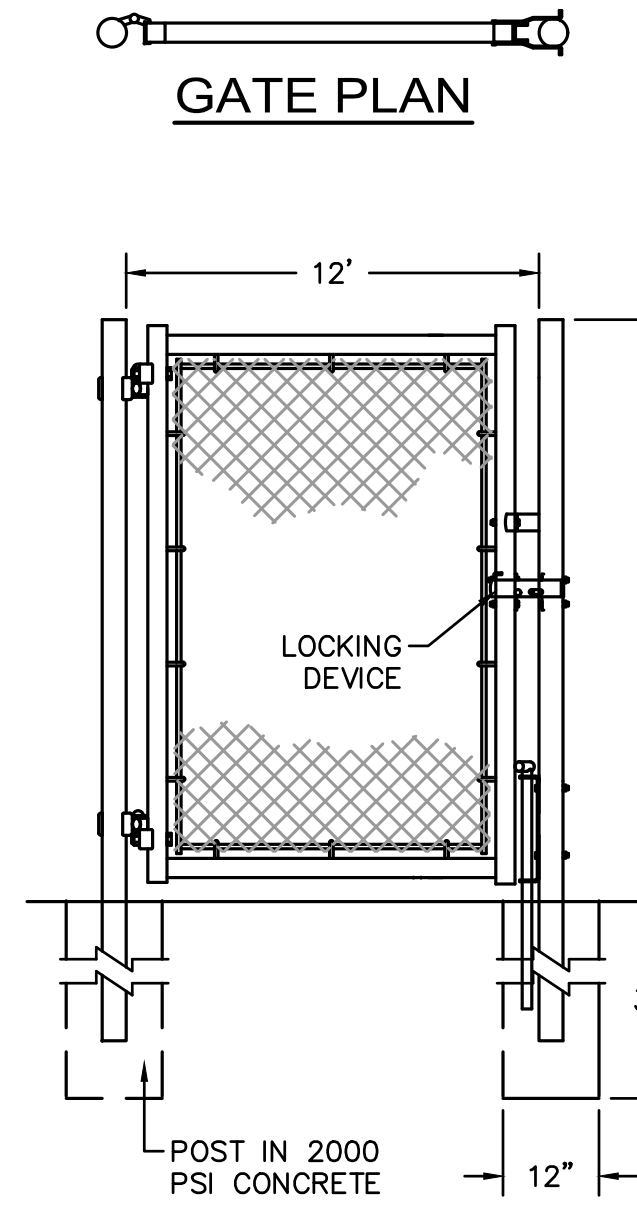


DOUBLE GATE ELEVATION

NOT TO SCALE

24' WIDE DOUBLE GATE

NOT TO SCALE

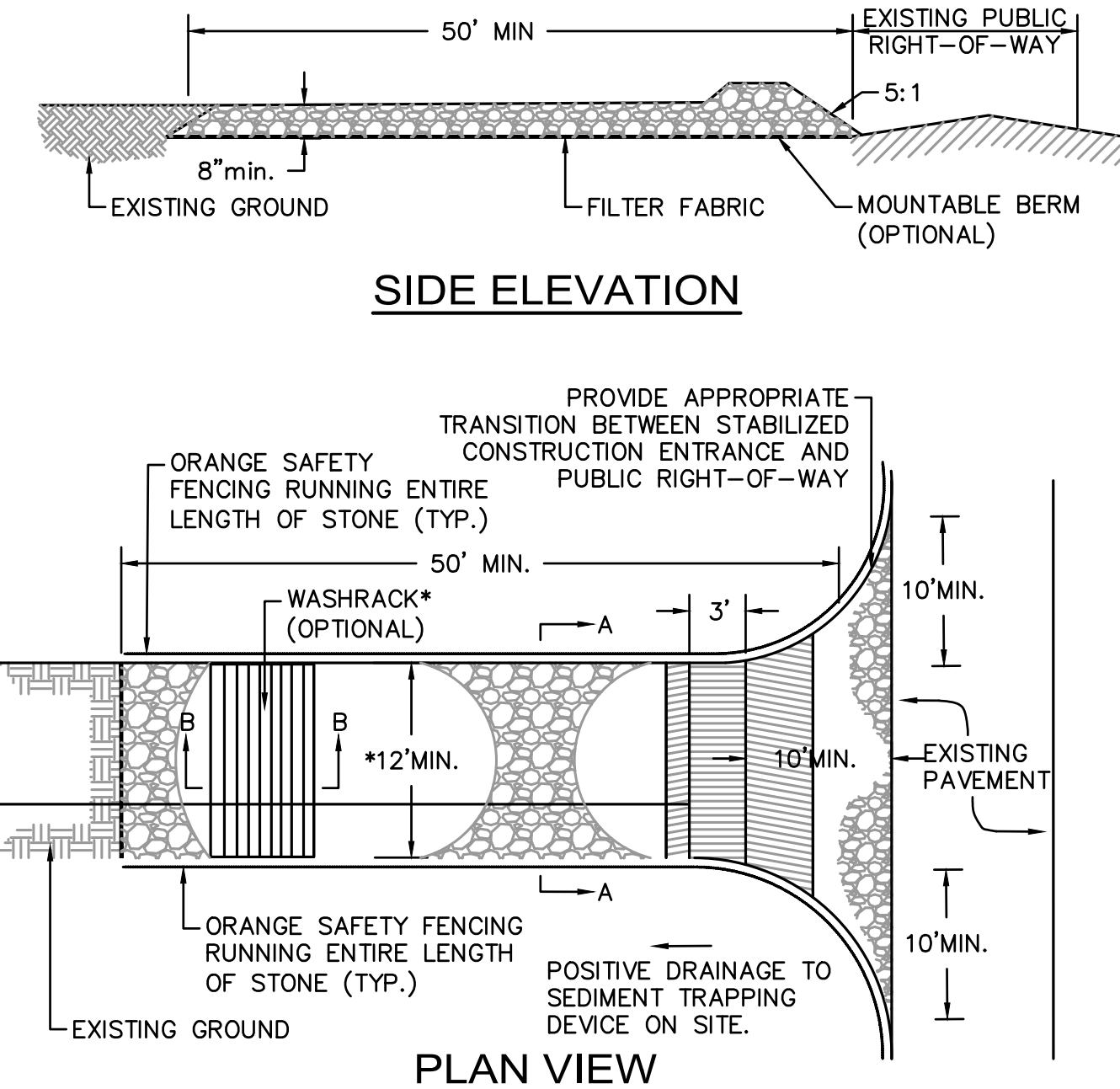


SINGLE GATE ELEVATION

NOT TO SCALE

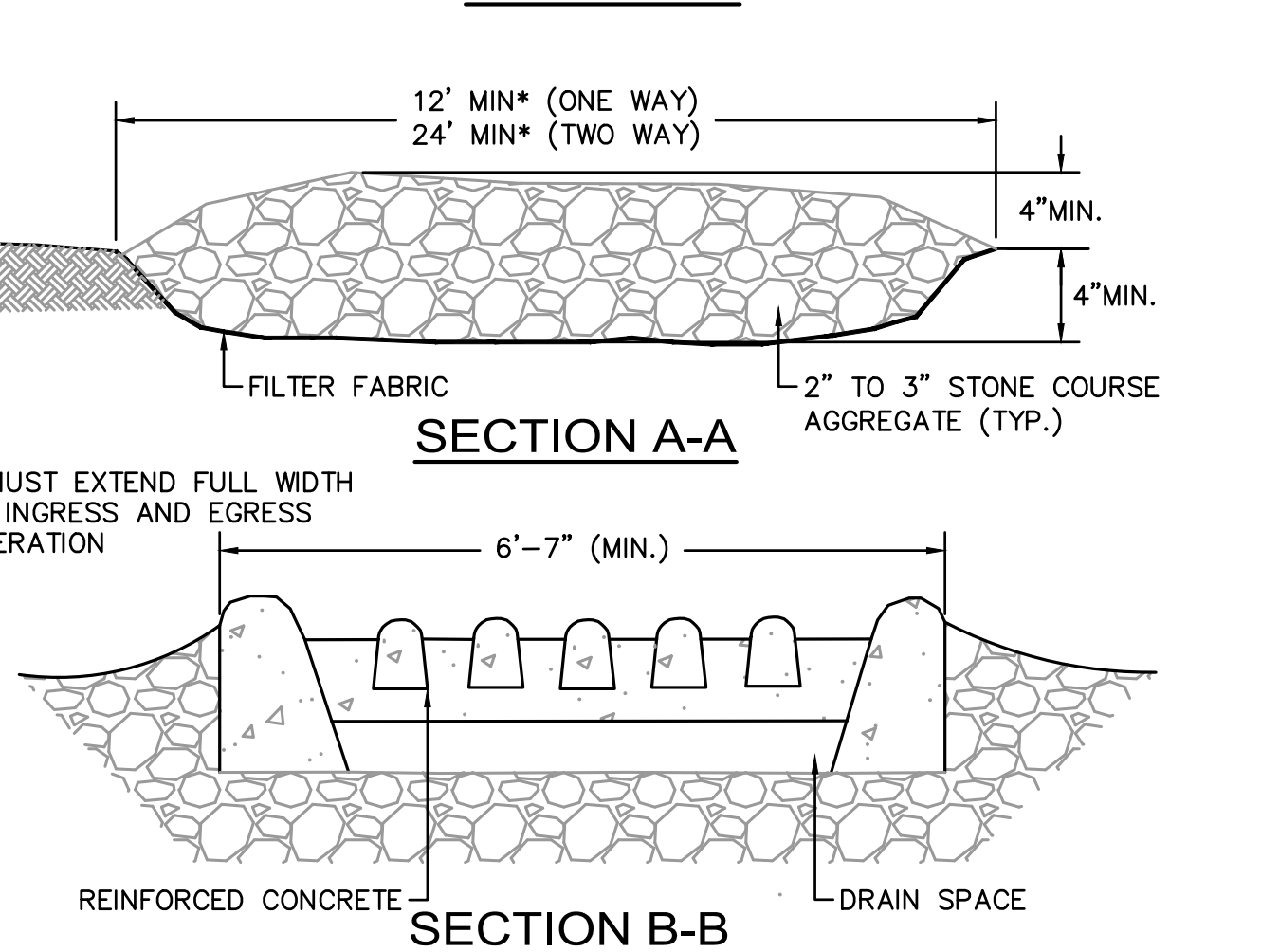
12' WIDE EMERGENCY GATE

NOT TO SCALE



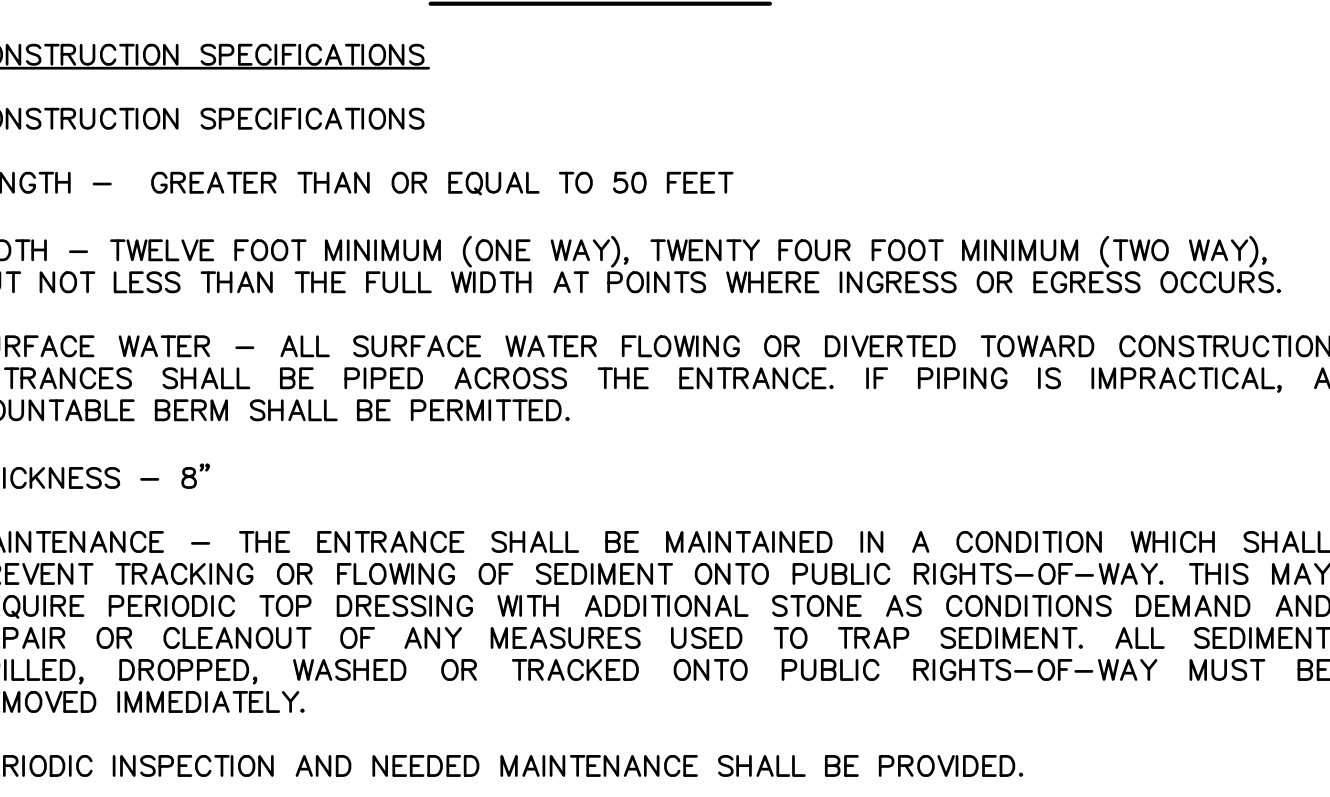
SIDE ELEVATION

NOT TO SCALE



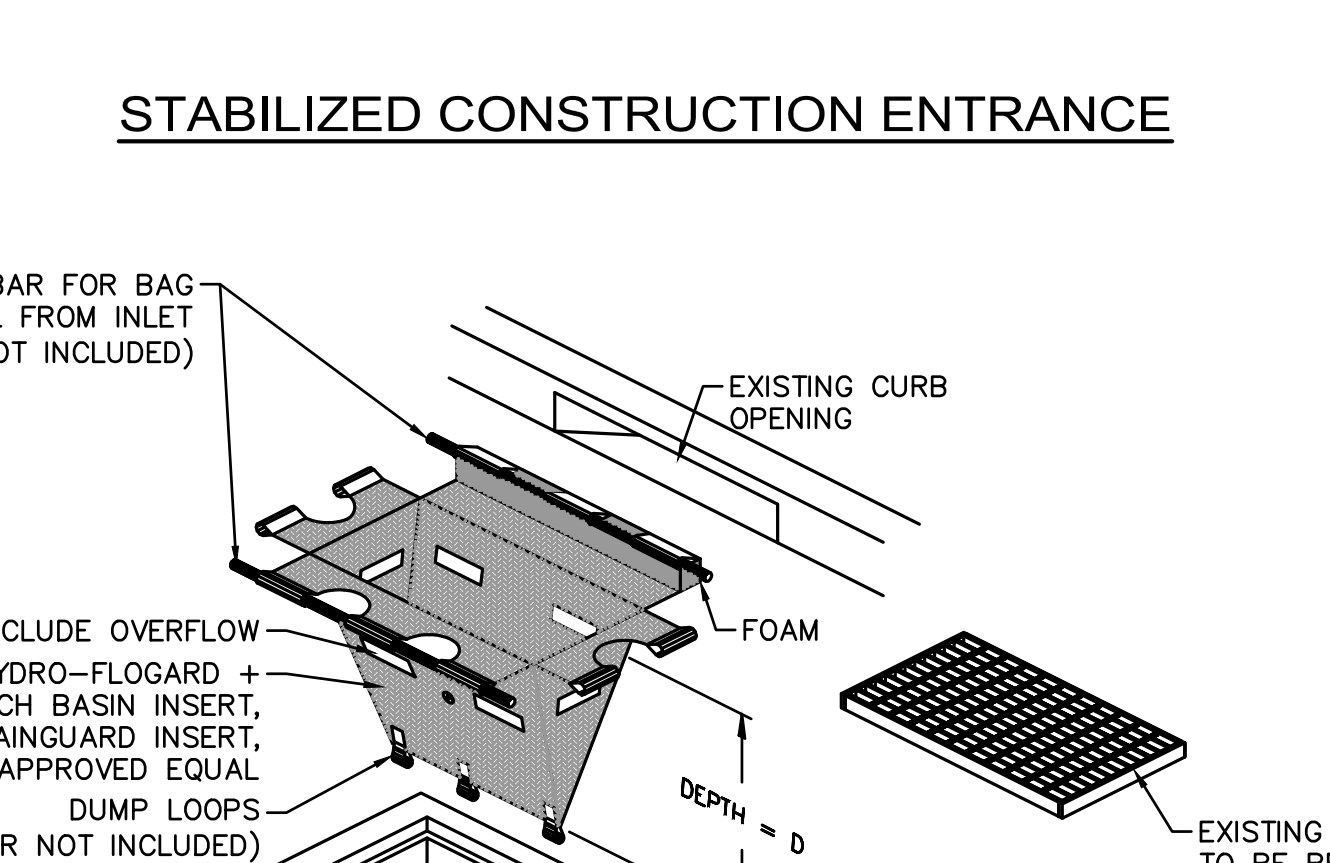
PLAN VIEW

NOT TO SCALE



SECTION A-A

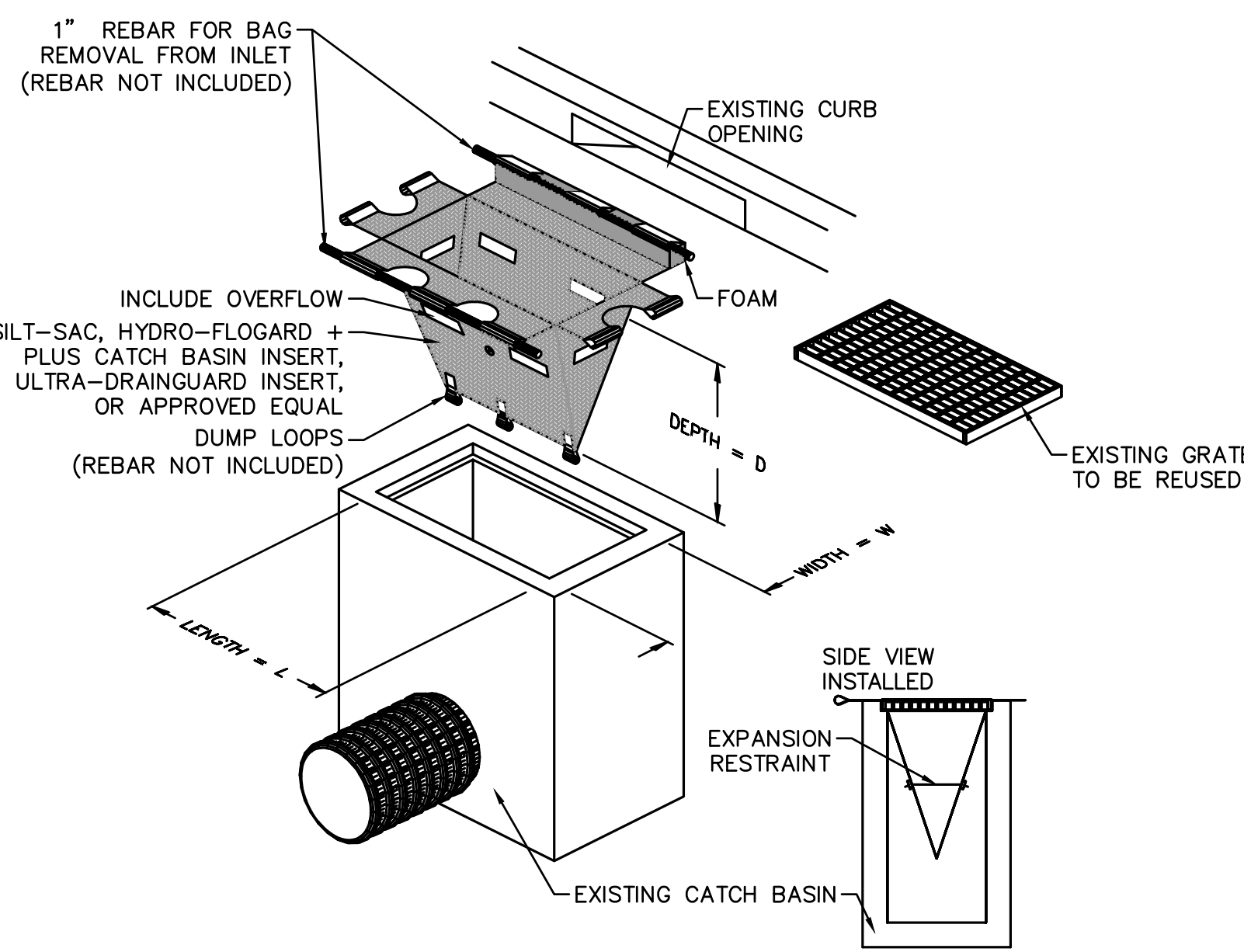
NOT TO SCALE



SECTION B-B

NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE



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

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JANUARY 13, 2023

CIVIL SITE DETAILS I

Scale: AS NOTED
Job No.: 13872

Drawn By: WL
Date: JANUARY 13, 2023

C-700

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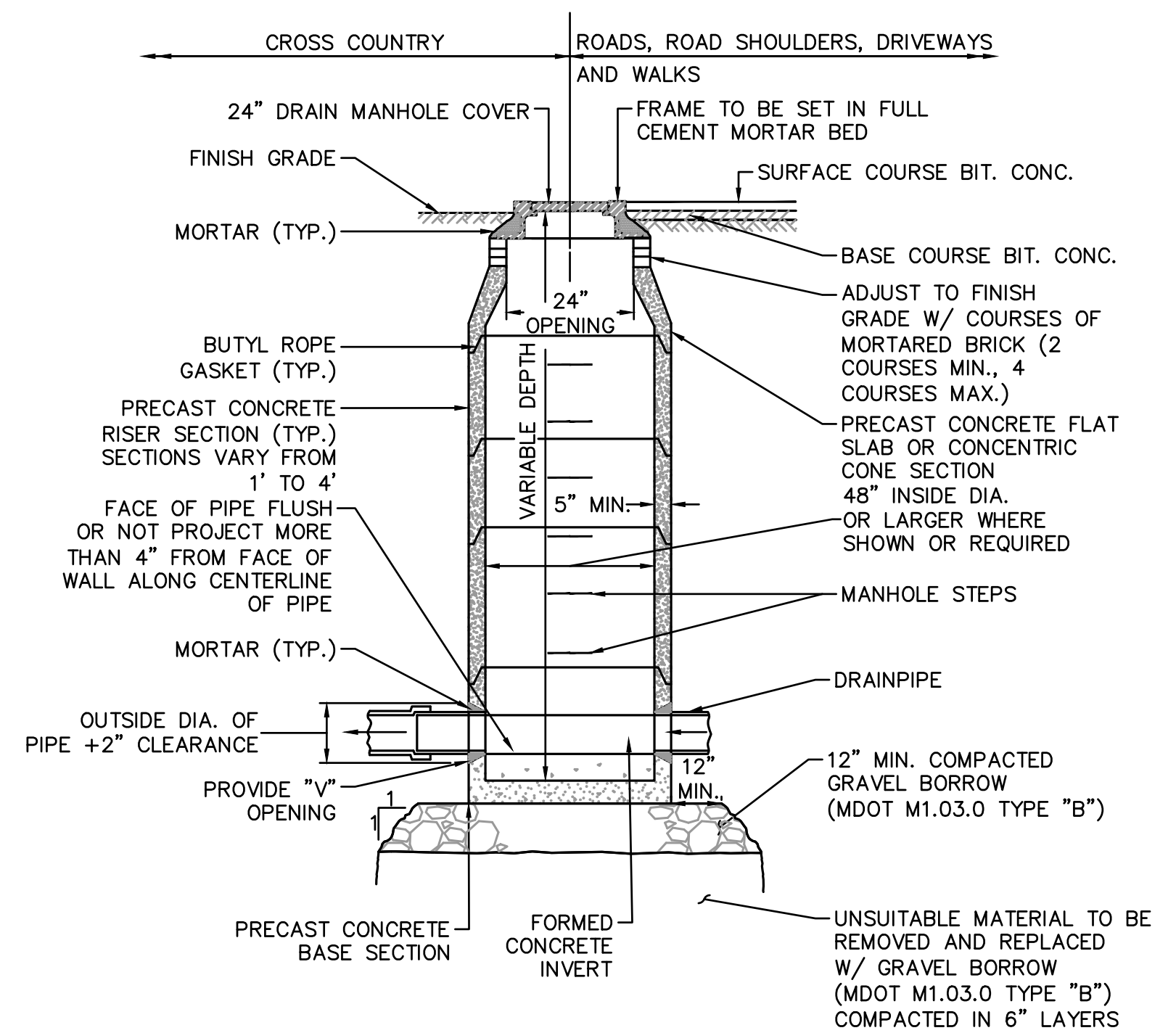
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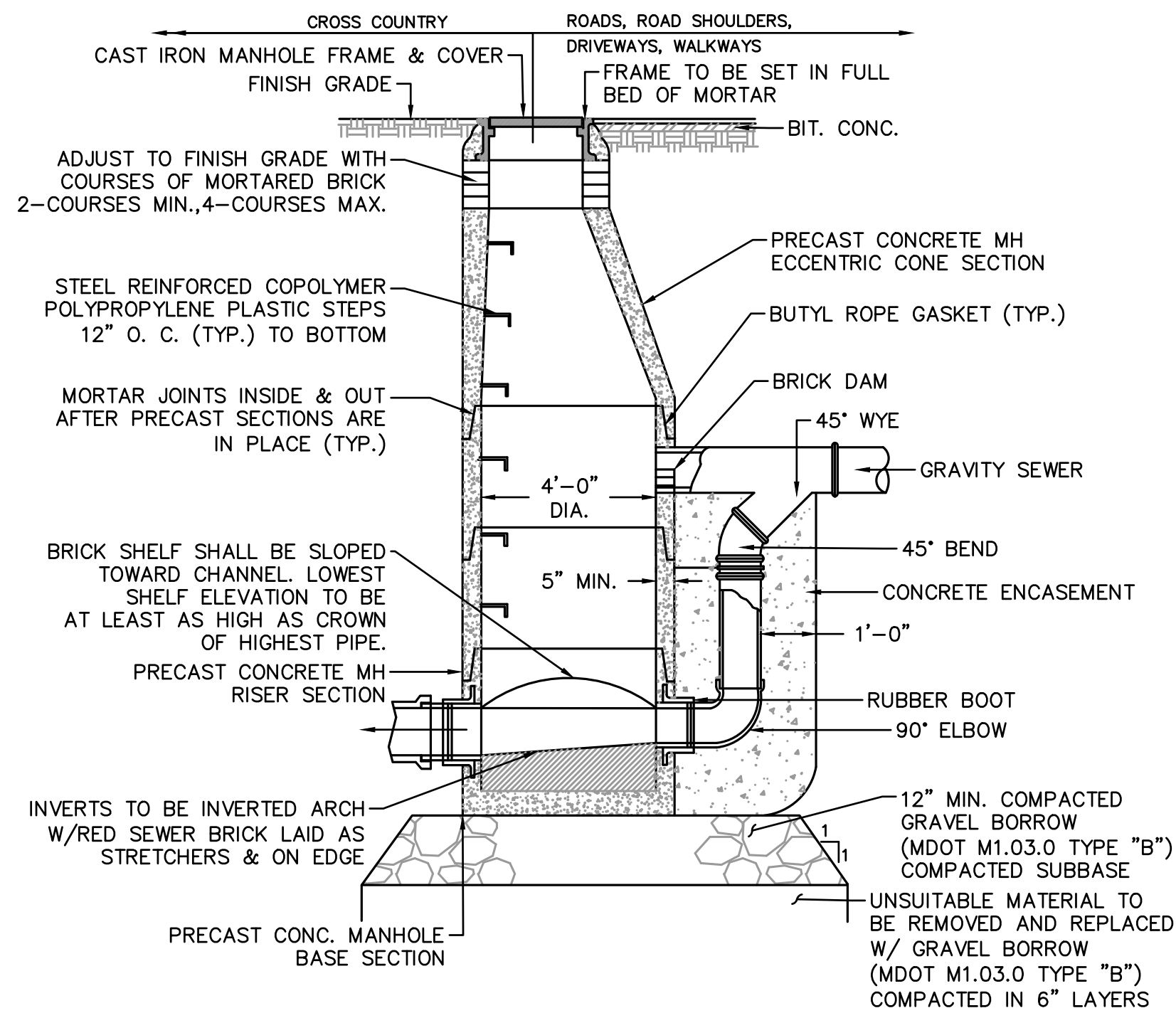
JANUARY 13, 2023

CIVIL SITE
DETAILS II

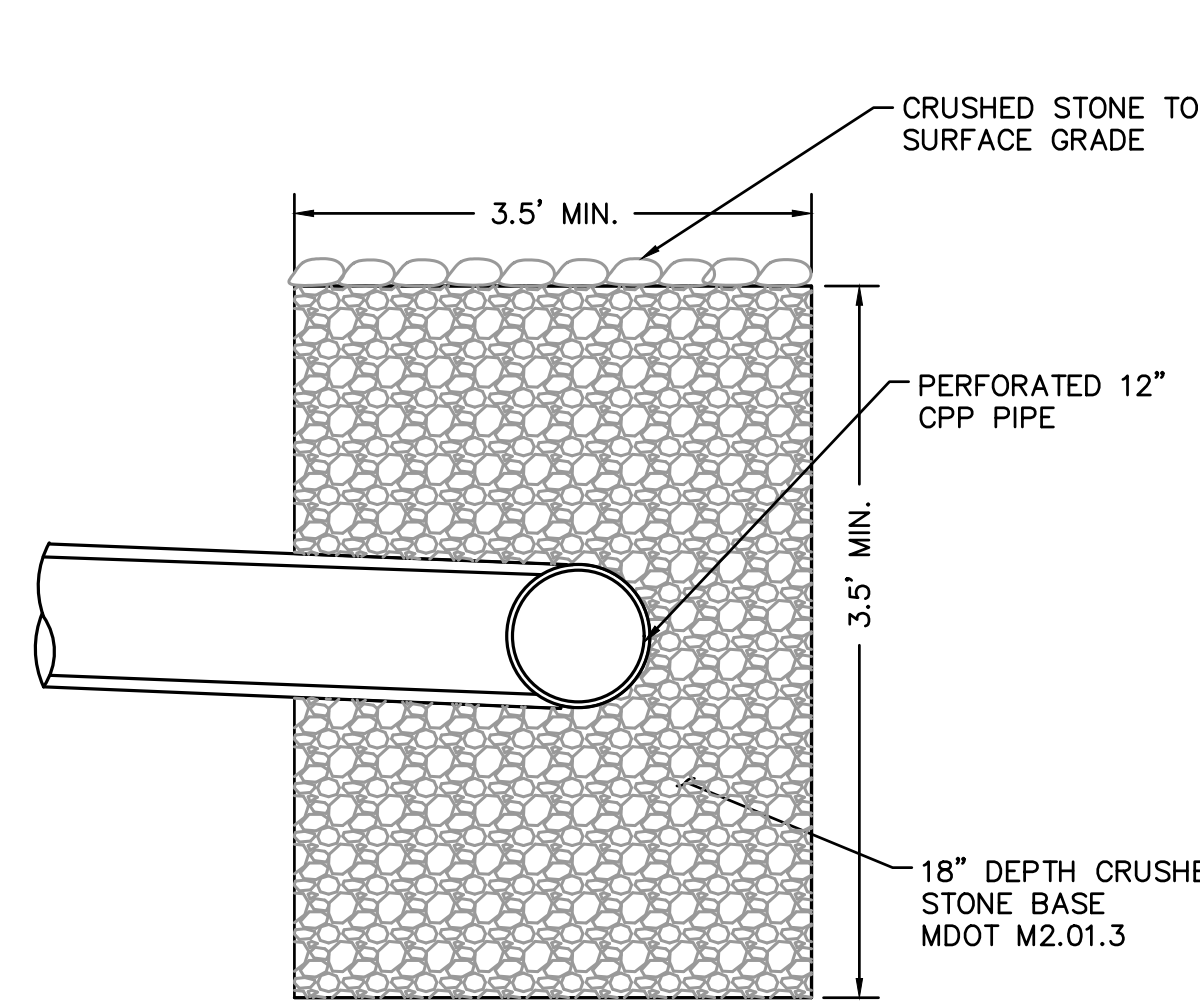
Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: JANUARY 13, 2023
C-701



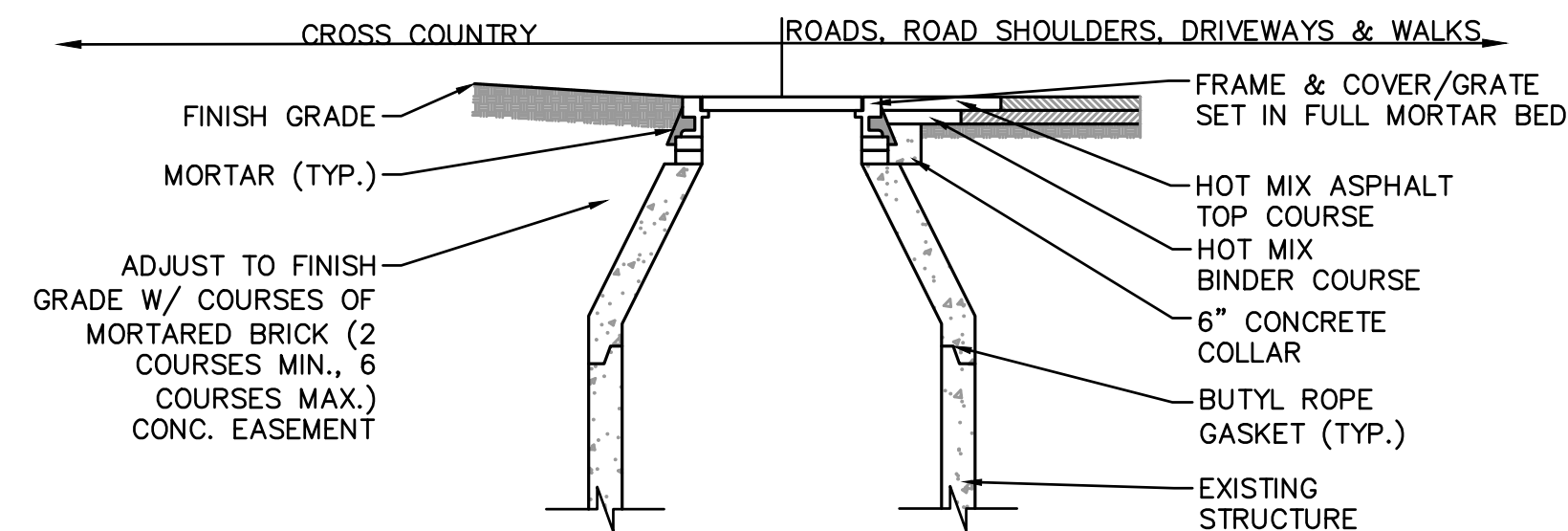
TYPICAL DRAIN MANHOLE DETAIL
NOT TO SCALE



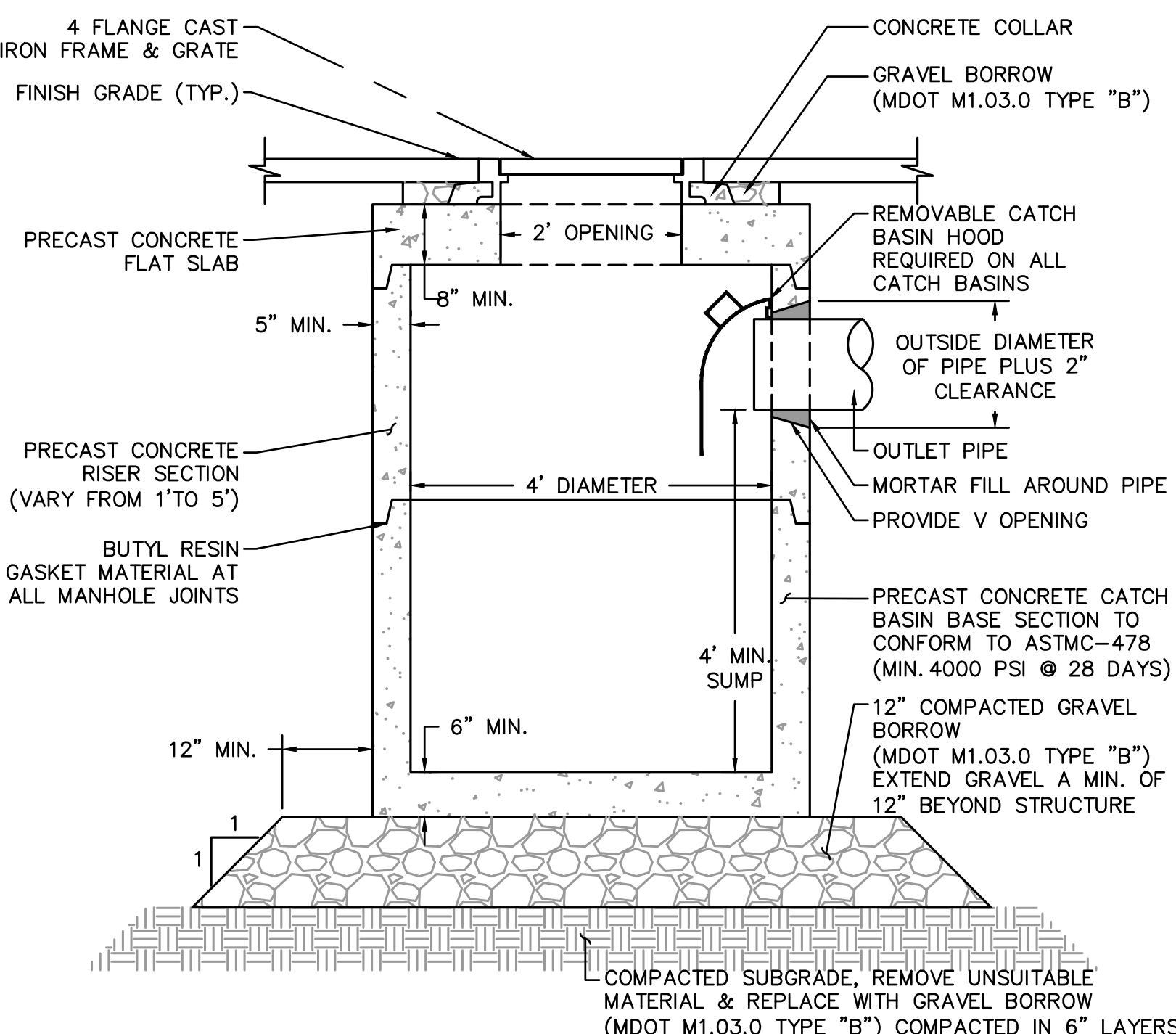
DROP MANHOLE DETAIL
NOT TO SCALE



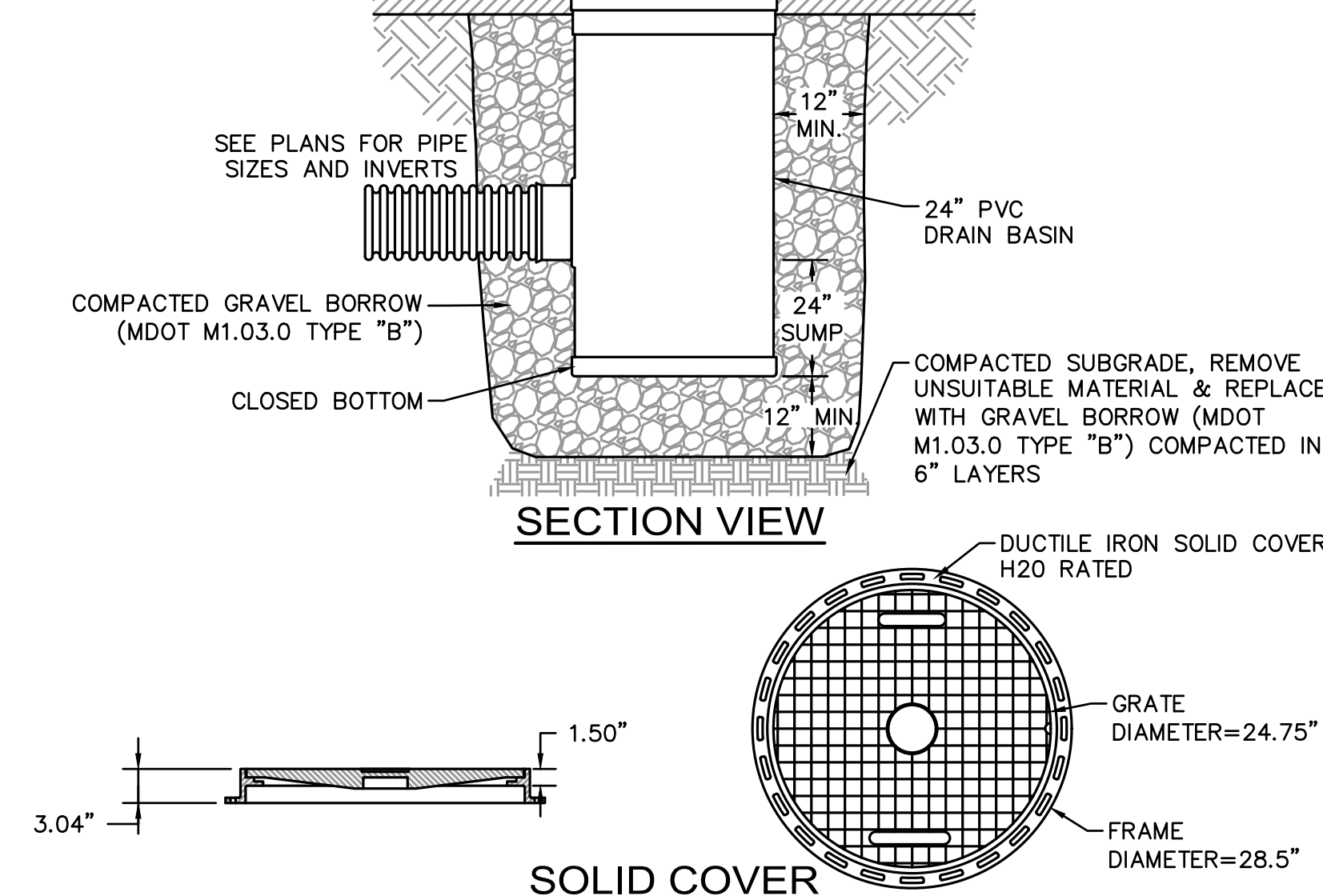
SECTION A-A
LEVEL SPREADER DETAIL
NOT TO SCALE



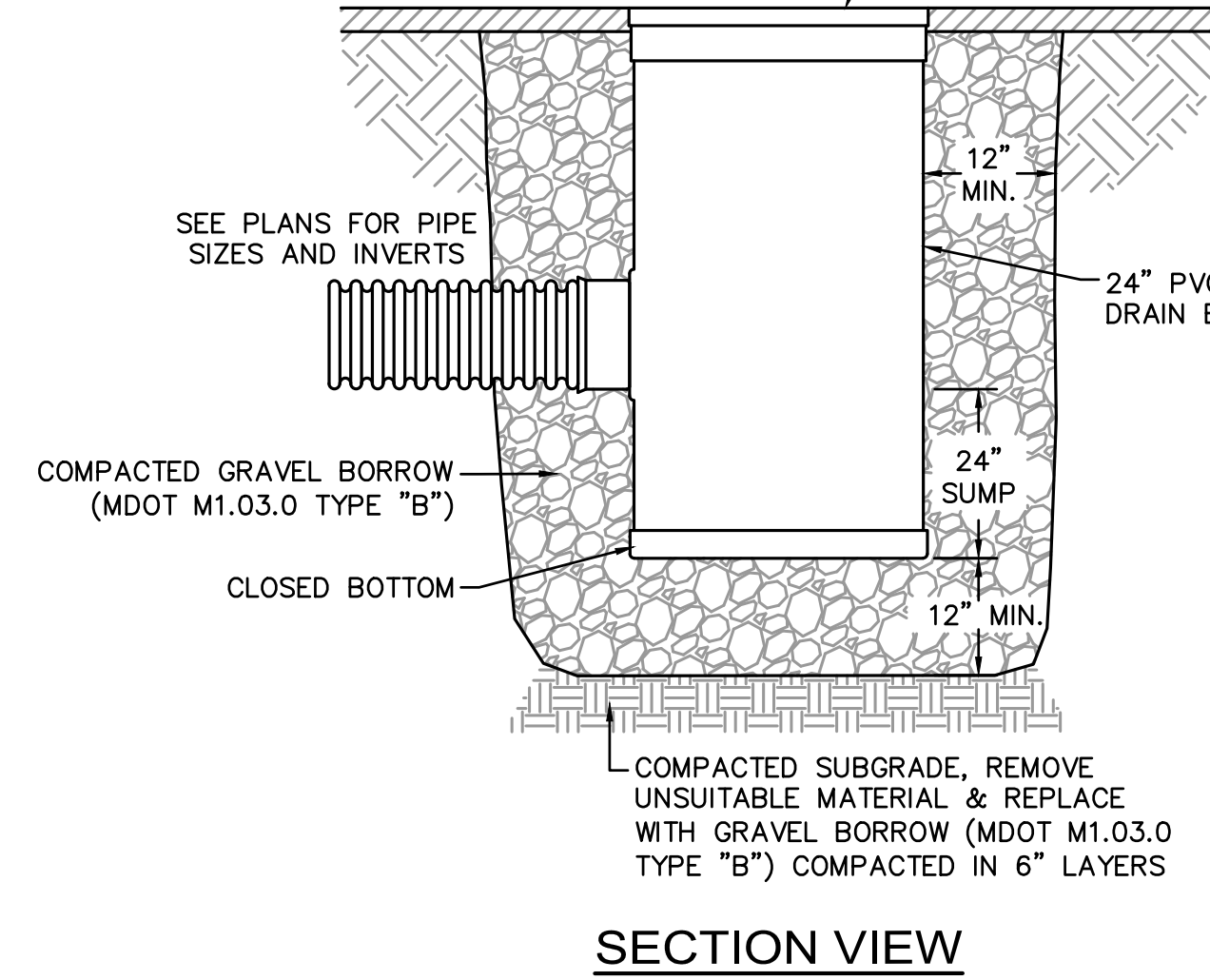
RIM SETTING DETAIL
NOT TO SCALE



SHALLOW CATCH BASIN DETAIL
NOT TO SCALE

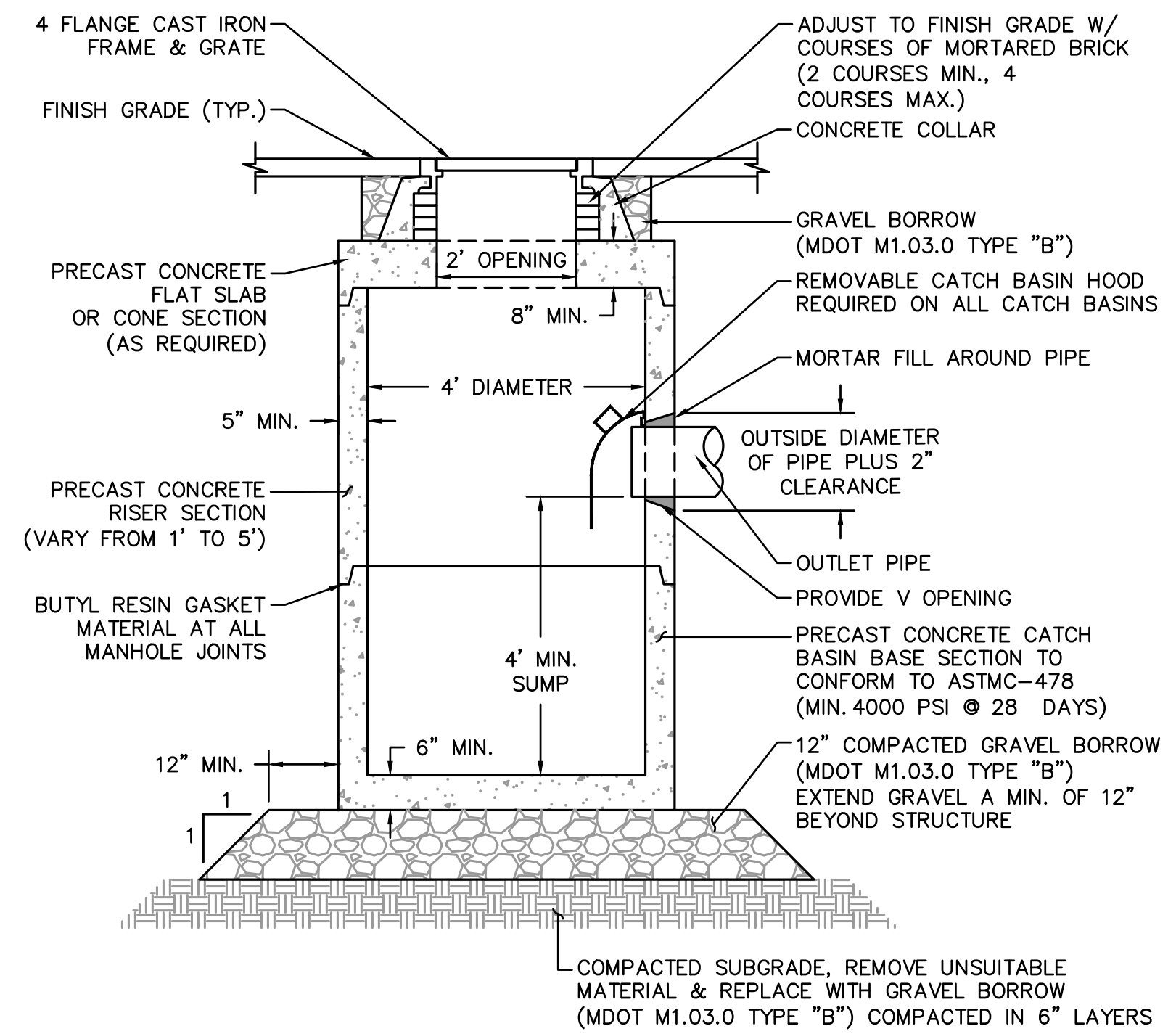
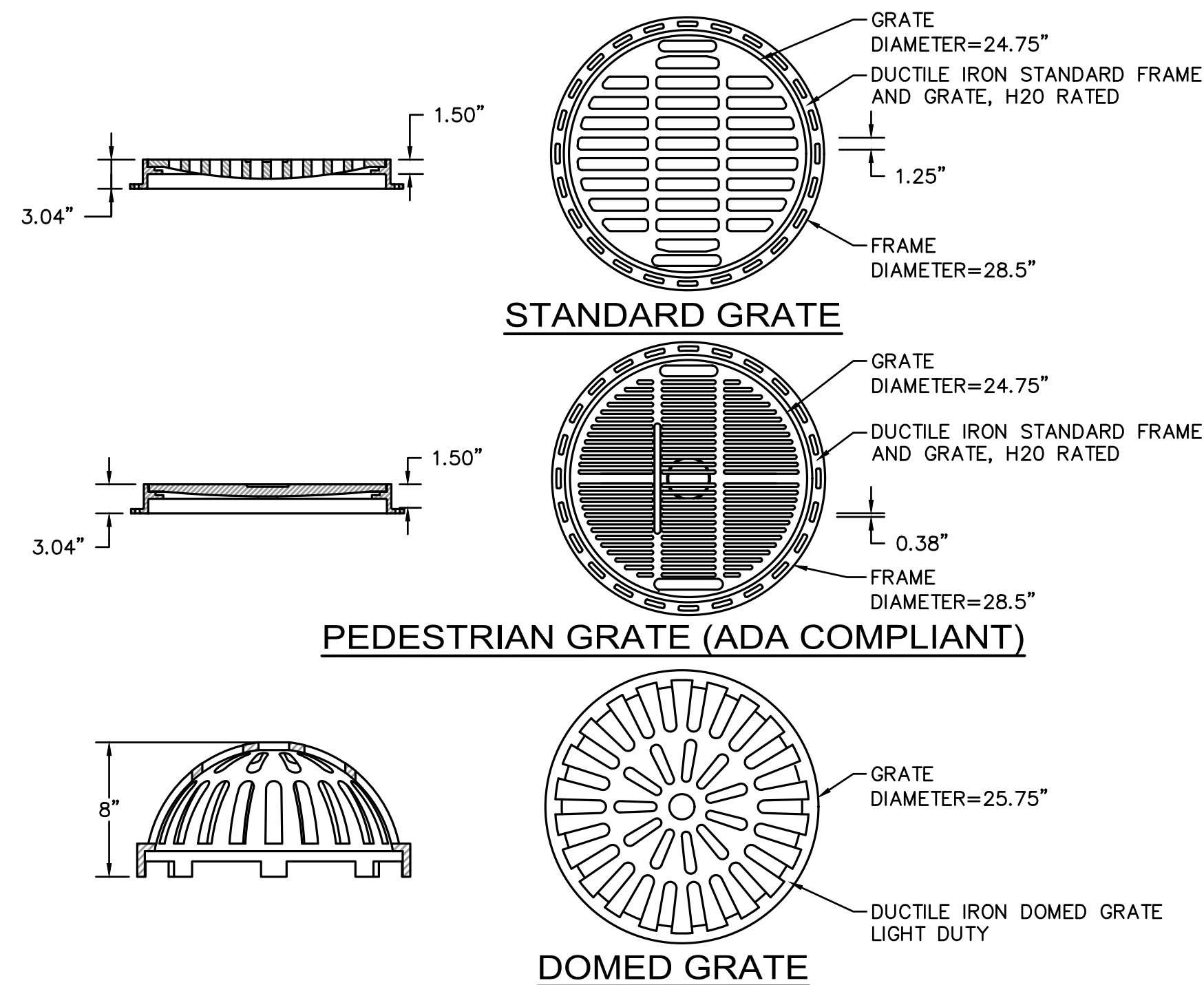


24\"/>

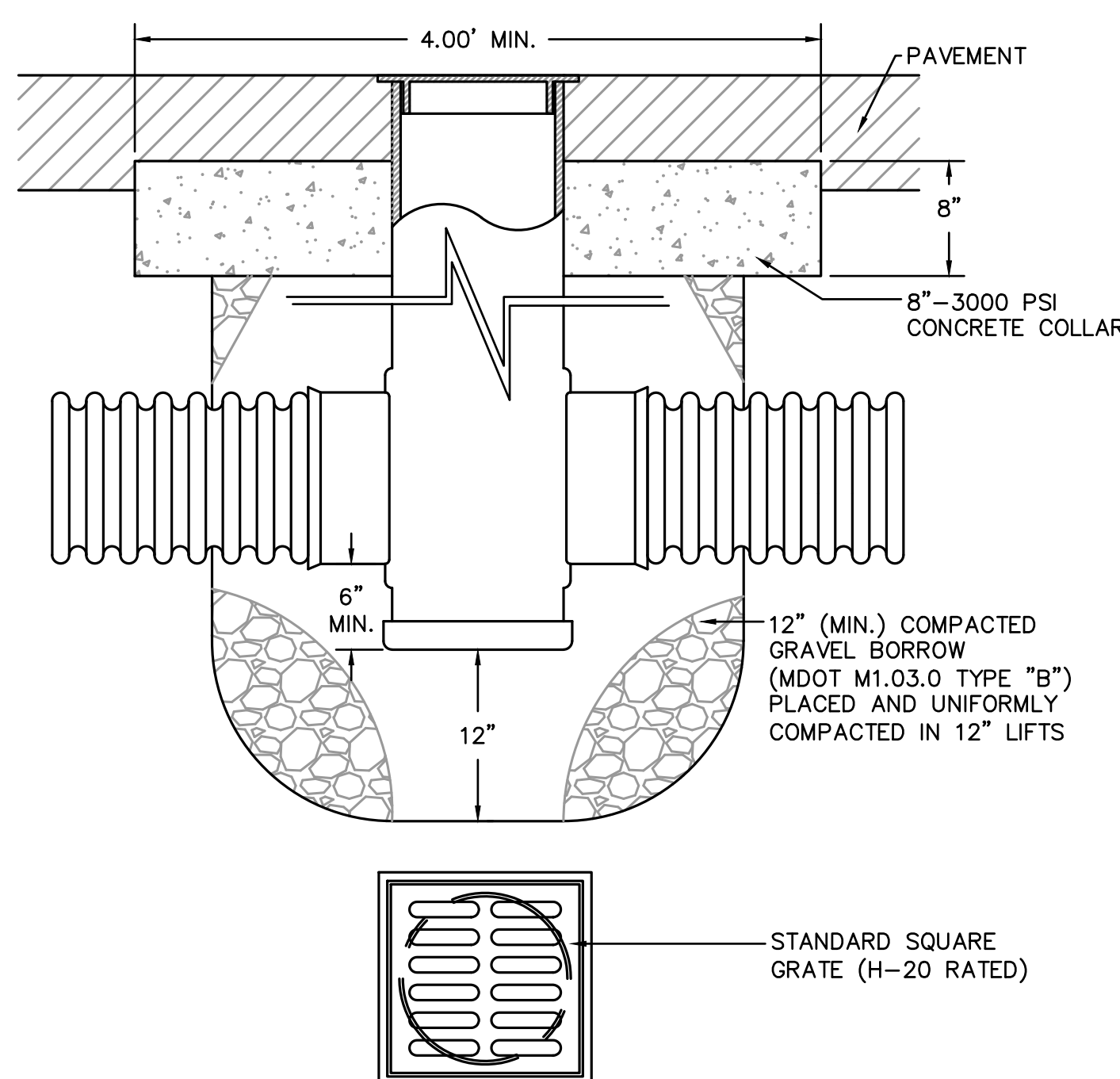


- NOTES:
1. FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
 2. 24\"/>
 3. ACCESS BASINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
 4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
 5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO ACCESS BASINS.

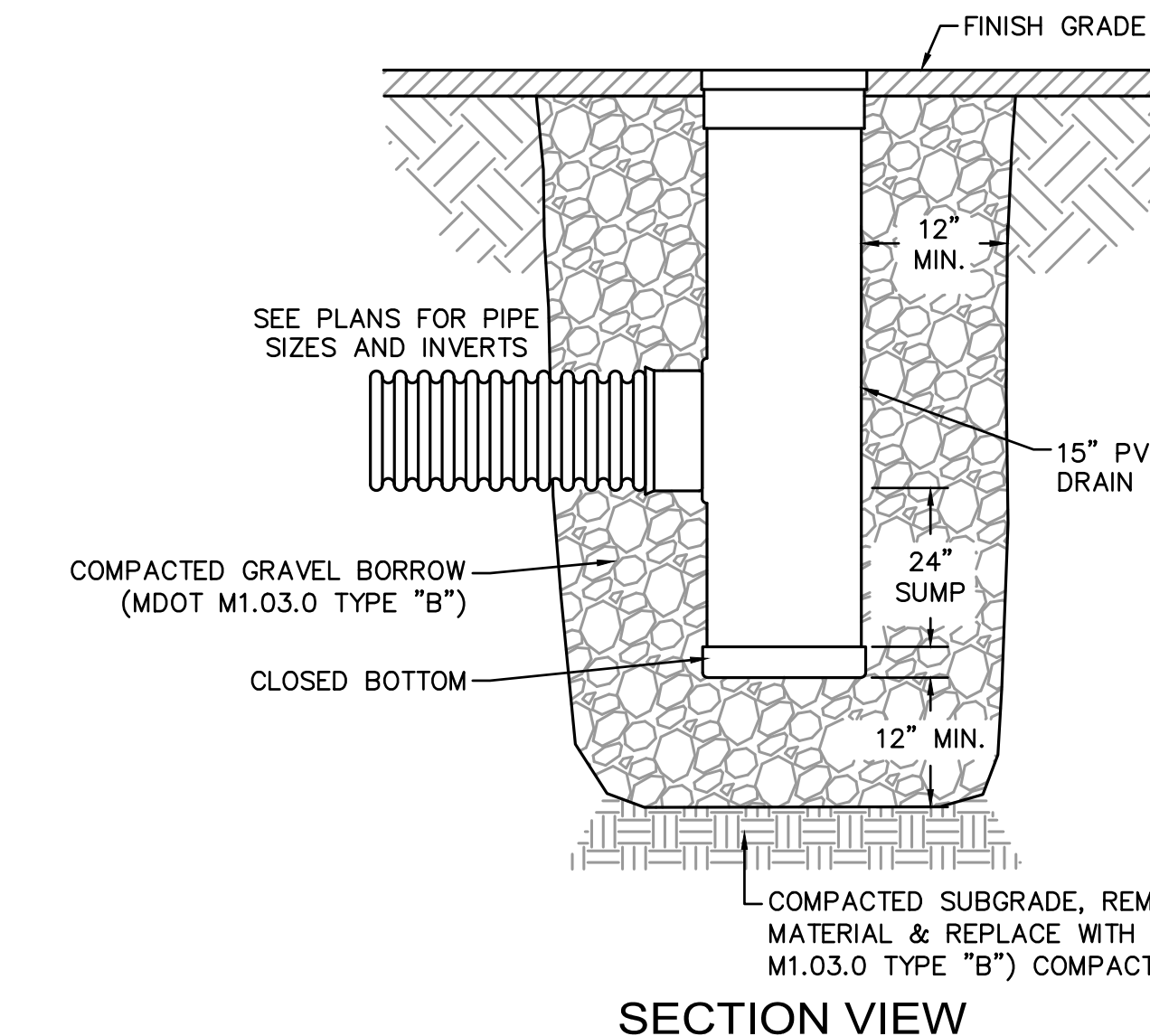
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TYPICAL CATCH BASIN DETAIL
NOT TO SCALE

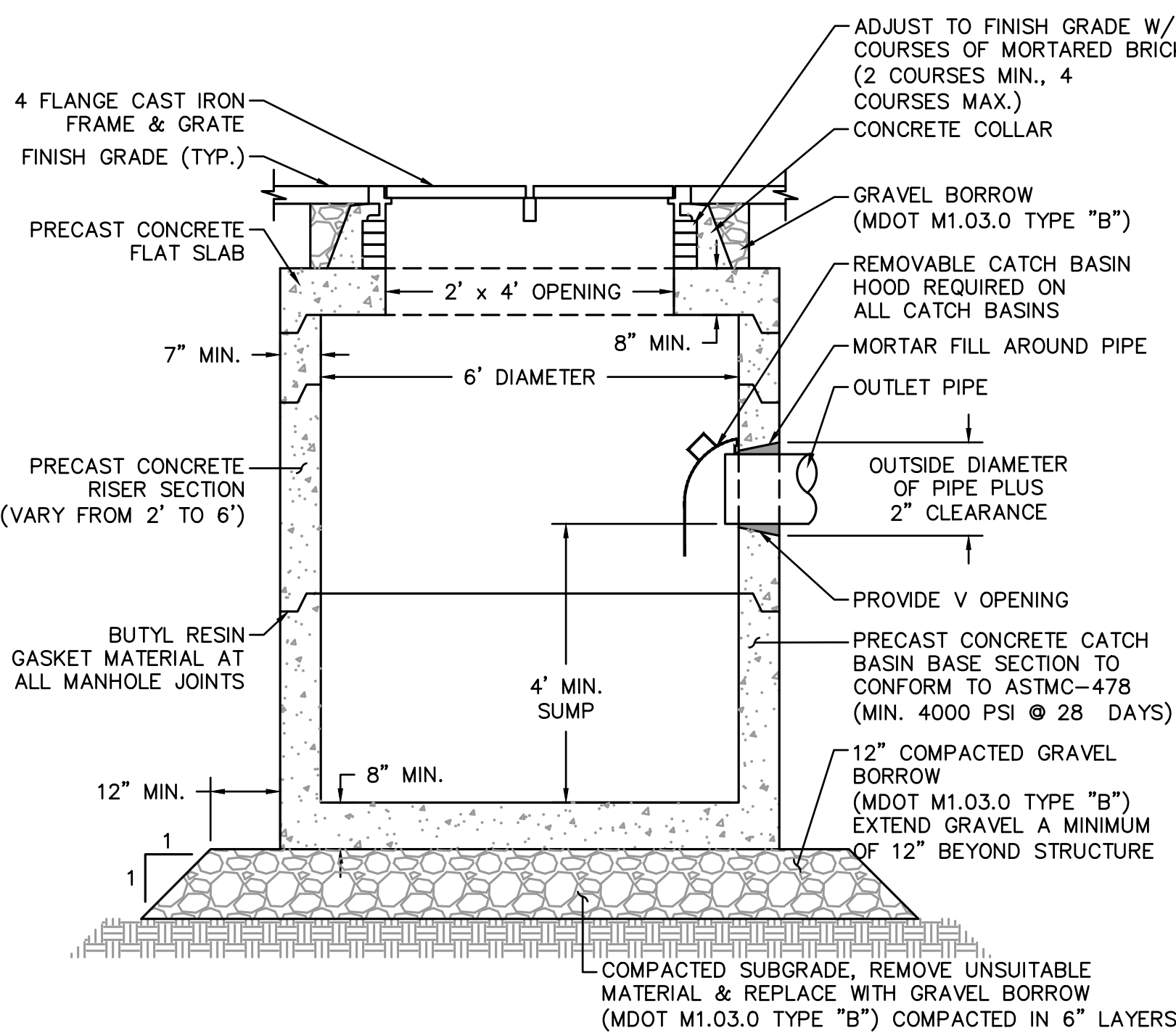
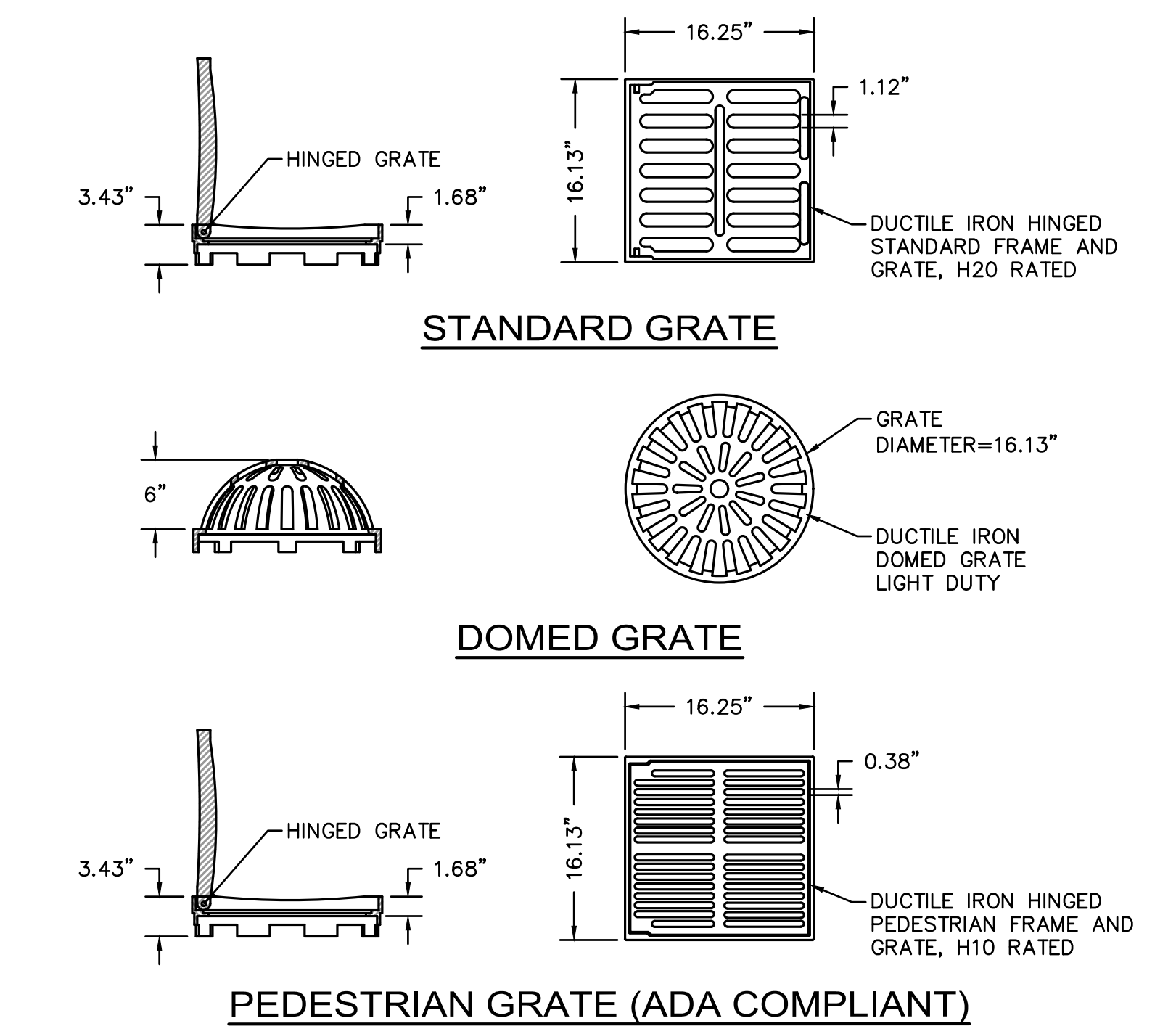


AREA DRAIN IN PAVEMENT
SUBJECT TO VEHICULAR LOAD
NOT TO SCALE



- NOTES:
1. FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
 2. 15\"/>
 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.

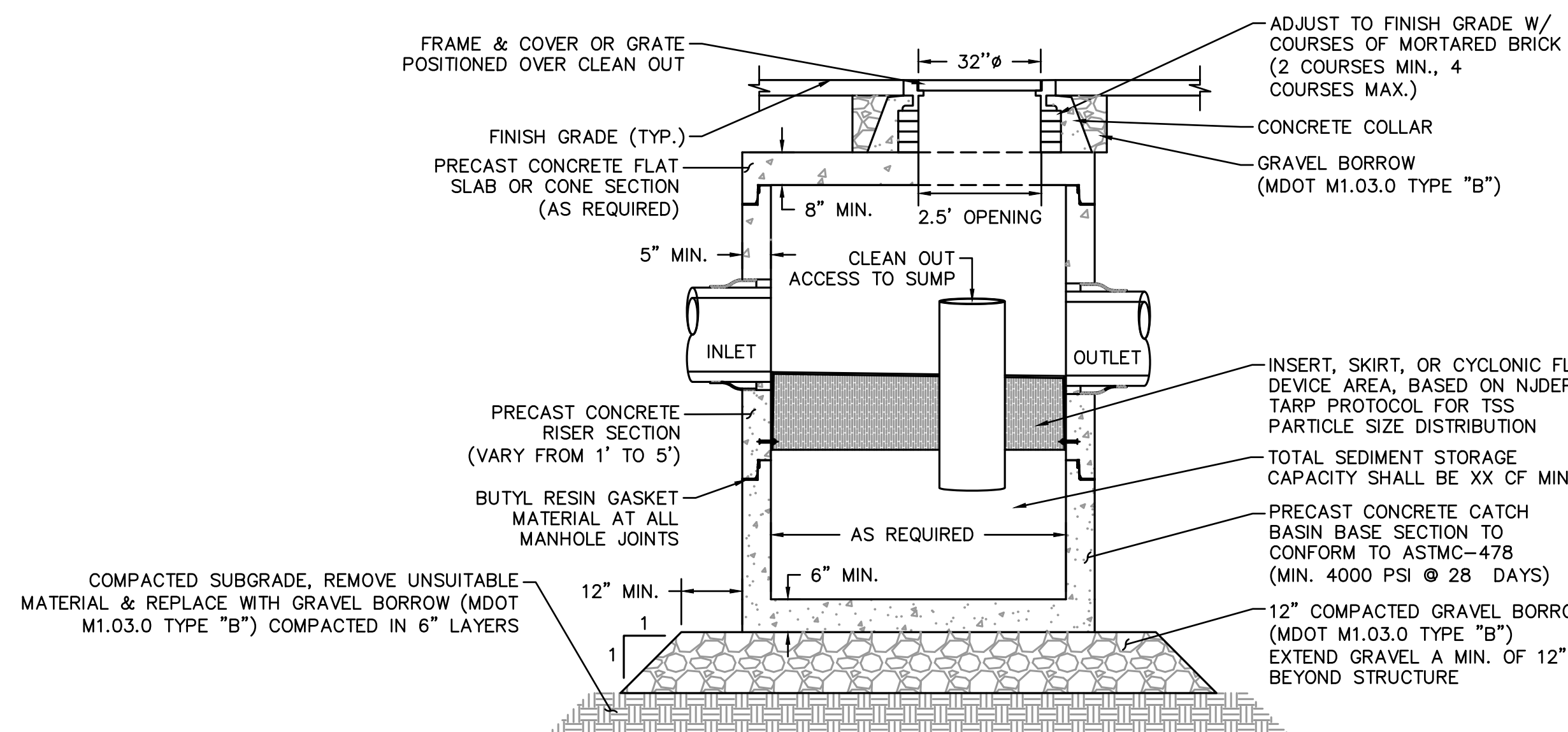
15\"/>



TYPICAL DOUBLE CATCH BASIN DETAIL
NOT TO SCALE

STRUCTURE NAME	MINIMUM WQF	PEAK FLOW RATE*	MINIMUM SEDIMENT STORAGE CAPACITY
WQI-501	0.10 CFS	2.06 CFS	20 CF
WQI-502	0.13 CFS		20 CF
WQI-503	0.09 CFS		20 CF
WQS-601	0.23 CFS	4.82 CFS	20 CF
WQS-602	0.06 CFS	0.40 CFS	20 CF
WQS-603	0.11 CFS	1.51 CFS	20 CF
WQS-604	0.12 CFS	1.38 CFS	20 CF
WQS-605	0.09 CFS	0.97 CFS	20 CF
WQS-606	0.62 CFS	5.93 CFS	22 CF
WQS-607	0.64 CFS	7.53 CFS	23 CF
WQS-608	0.33 CFS	3.86 CFS	20 CF
WQS-609	0.81 CFS	8.10 CFS	29 CF
WQS-610	0.22 CFS	2.81 CFS	20 CF
WQS-611	0.02 CFS	0.27 CFS	20 CF
WQS-612	0.67 CFS	11.70 CFS	23 CF
WQS-613	0.08 CFS	4.17 CFS	20 CF
WQS-614	0.40 CFS	11.91 CFS	20 CF
WQS-615	0.28 CFS	3.29 CFS	20 CF
WQS-616	0.17 CFS	2.94 CFS	20 CF
WQS-617	0.17 CFS	1.96 CFS	20 CF
WQS-618	0.23 CFS	5.01 CFS	20 CF
WQS-619	0.09 CFS		20 CF

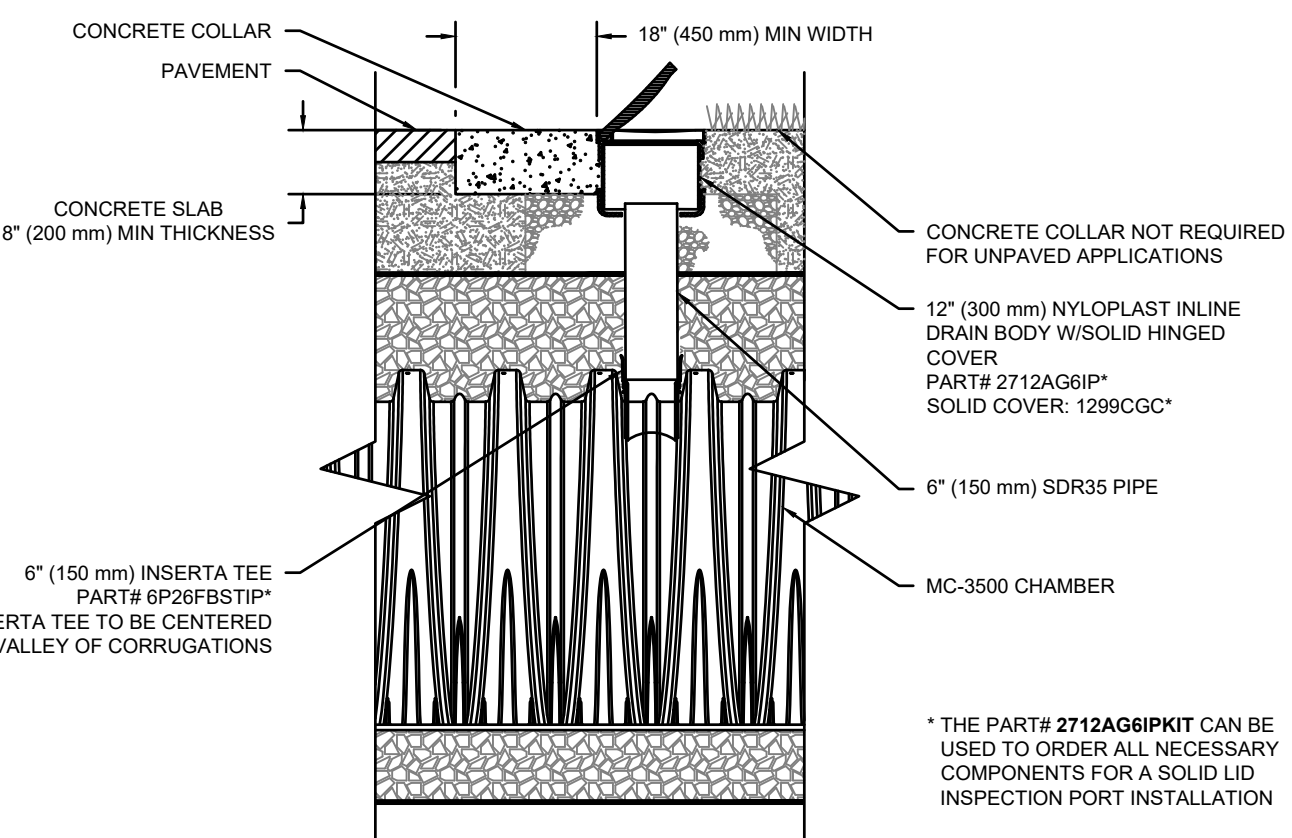
* PEAK FLOW RATE BASED ON RATIONAL ANALYSIS FOR A 25-YEAR STORM EVENT. STRUCTURE SHALL BE ABLE TO PASS PEAK FLOW RATE WITHOUT CAUSING A BACKWATER CONDITION.



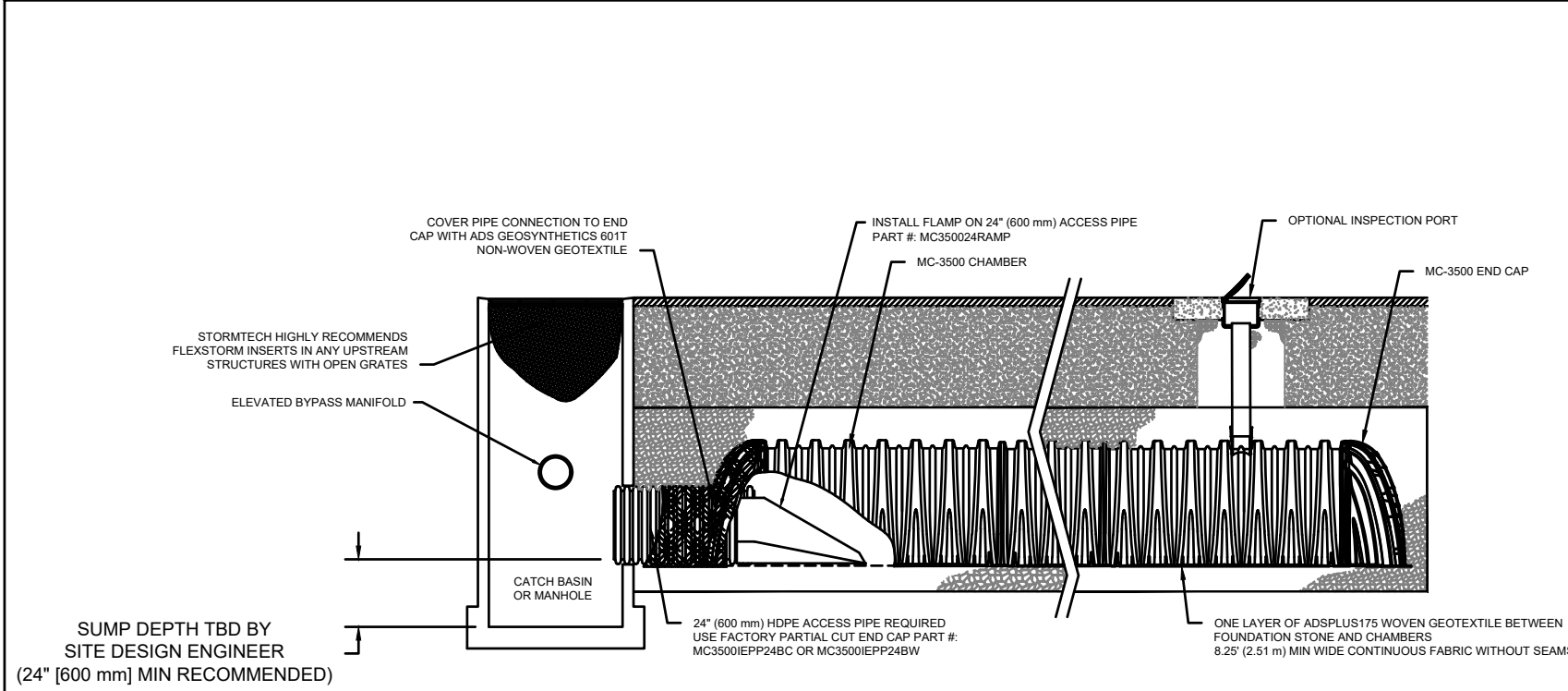
- NOTE:
1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
 2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL CLEANOUT PIPE.
 3. STRUCTURE DESIGNED FOR H20 LOADING.

WATER QUALITY STRUCTURE DETAIL
NOT TO SCALE

\\dra\apps\cadd\2023\13872\13872.dwg
DATE PLOTTED: 01/13/2023
PLOTTER: HP DesignJet T1100
PLOTTER DRIVER: HP DesignJet T1100
PLOTTER MODEL: HP DesignJet T1100
PLOTTER FIRMWARE: HP DesignJet T1100
PLOTTER SOFTWARE: HP DesignJet T1100
PLOTTER HARDWARE: HP DesignJet T1100
PLOTTER SERIAL: HP DesignJet T1100
PLOTTER IP: HP DesignJet T1100
PLOTTER PORT: HP DesignJet T1100
PLOTTER USERNAME: HP DesignJet T1100
PLOTTER PASSWORD: HP DesignJet T1100
PLOTTER SECURITY: HP DesignJet T1100
PLOTTER STATUS: HP DesignJet T1100
PLOTTER ERROR: HP DesignJet T1100
PLOTTER MESSAGE: HP DesignJet T1100
PLOTTER ACTION: HP DesignJet T1100
PLOTTER RESULT: HP DesignJet T1100
PLOTTER TIME: HP DesignJet T1100
PLOTTER DATE: HP DesignJet T1100
PLOTTER USER: HP DesignJet T1100
PLOTTER GROUP: HP DesignJet T1100
PLOTTER PROJECT: HP DesignJet T1100
PLOTTER JOB: HP DesignJet T1100
PLOTTER SHEET: HP DesignJet T1100
PLOTTER TOTAL: HP DesignJet T1100
PLOTTER COUNT: HP DesignJet T1100
PLOTTER PERCENT: HP DesignJet T1100
PLOTTER STATUS: HP DesignJet T1100
PLOTTER ERROR: HP DesignJet T1100
PLOTTER MESSAGE: HP DesignJet T1100
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PLOTTER DATE: HP DesignJet T1100
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PLOTTER GROUP: HP DesignJet T1100
PLOTTER PROJECT: HP DesignJet T1100
PLOTTER JOB: HP DesignJet T1100
PLOTTER SHEET: HP DesignJet T1100
PLOTTER TOTAL: HP DesignJet T1100
PLOTTER COUNT: HP DesignJet T1100
PLOTTER PERCENT: HP DesignJet T1100



MC-3500 6\"/>



MC-3500 ISOLATOR ROW PLUS DETAIL

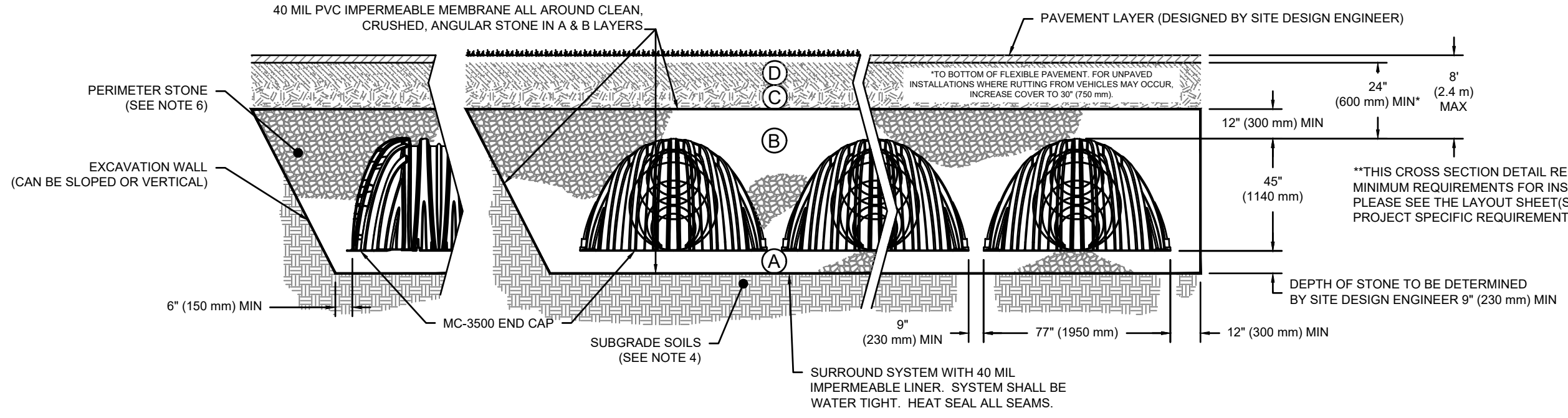
- INSPECTION & MAINTENANCE**
- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXTOM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3\"/>

- NOTES
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

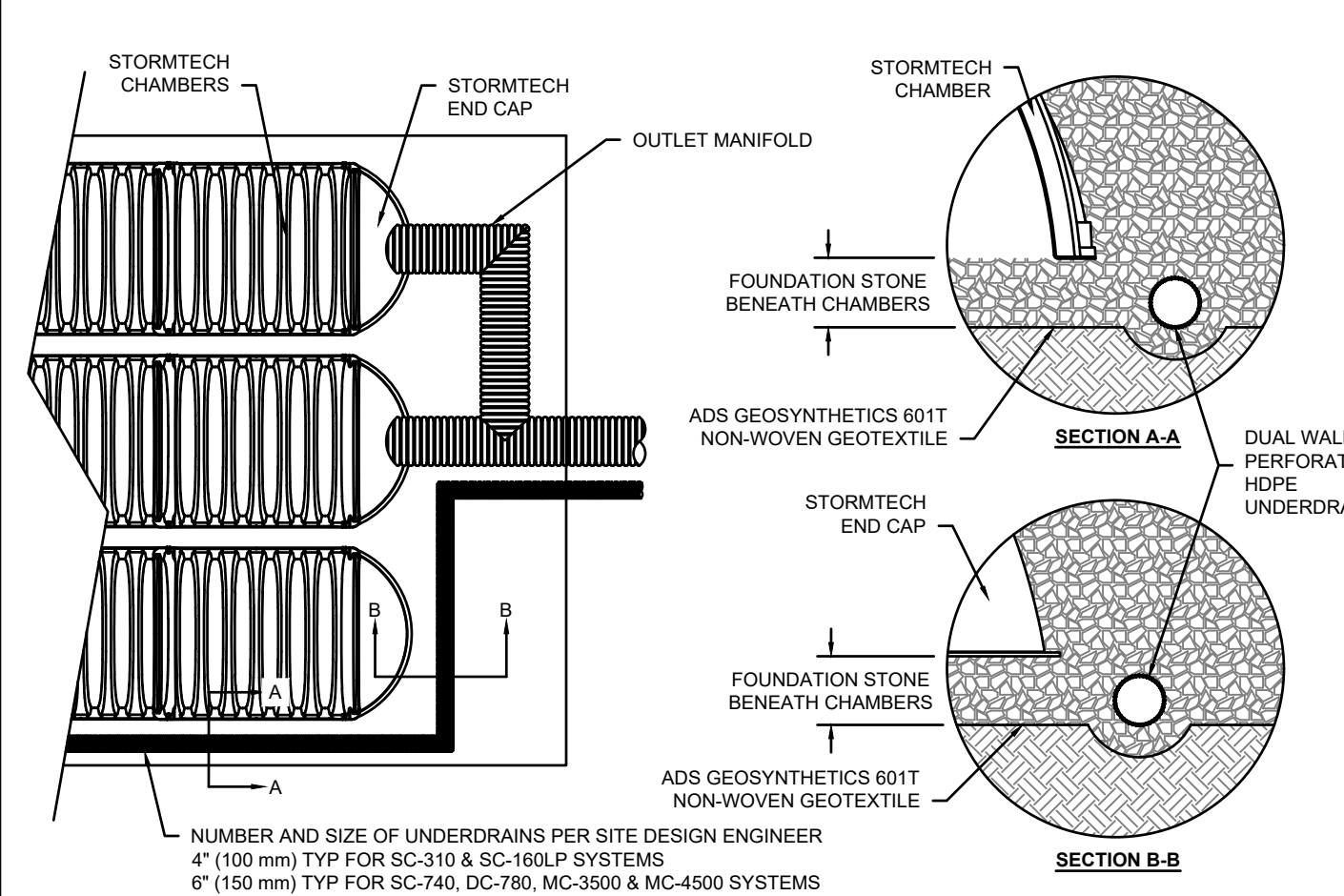
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEERS PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A
C	INITIAL FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDED STONE (B) LAYER TO 24\"/>	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES - <35% FINES OR PROCESSED AGGREGATE. OR AASHTO M45 1.4 AASHTO M43 3.367, 4.467, 5.56, 6.67, 6.78, 6.88, 9.10	BEGIN COMPACTIONS AFTER 24\"/>
B	EMBODIMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A) LAYER TO THE 'C' LAYER (AFTER)	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 1.4
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 3.4

- PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'K' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6\"/>

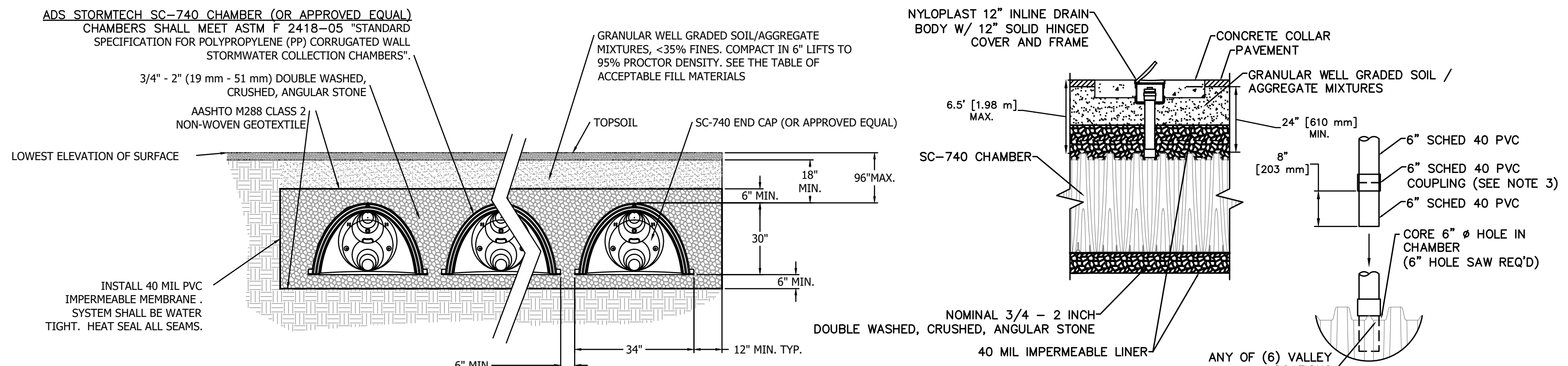


- NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x75 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL, FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1\"/>

MC-3500 CROSS SECTION DETAIL



UNDERDRAIN DETAIL



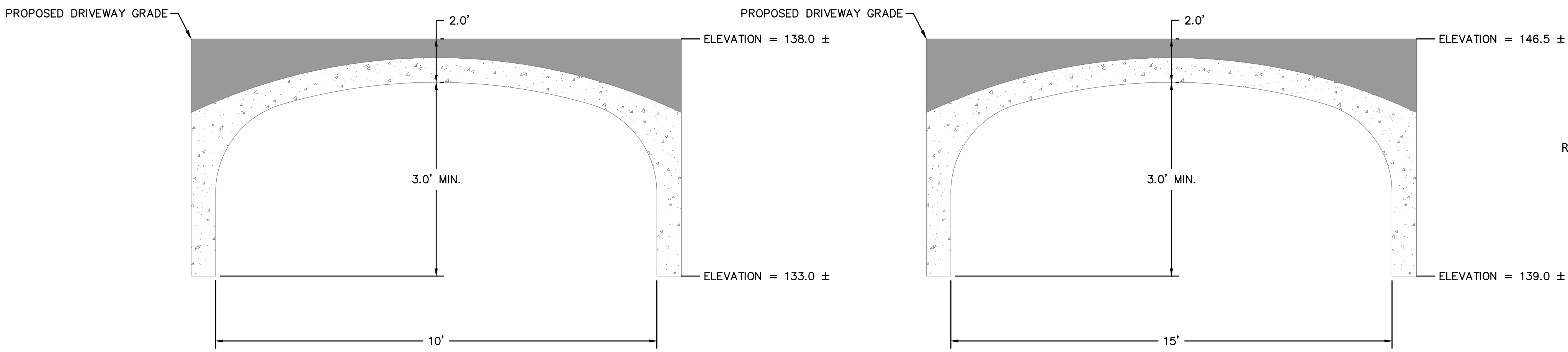
CROSS SECTION
NOT TO SCALE

INSPECTION PORT
NOT TO SCALE

CONNECTION DETAIL
NTS

- NOTES:
- 1) DETAILS PROVIDED ARE FOR GENERAL REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER ON THE DESIGN SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 2) THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.
- 3) PERIMETER STONE MUST ALWAYS BE BROUGHT UP EVENLY WITH BACKFILL OF BED. PERIMETER STONE MUST EXTEND HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH STRAIGHT OR SLOPED SIDEWALLS.
- 4) INSPECTION PORTS MAY BE CONNECTED THROUGH ANY OF (6) CHAMBER CORRUGATION VALLEYS
- 5) ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.

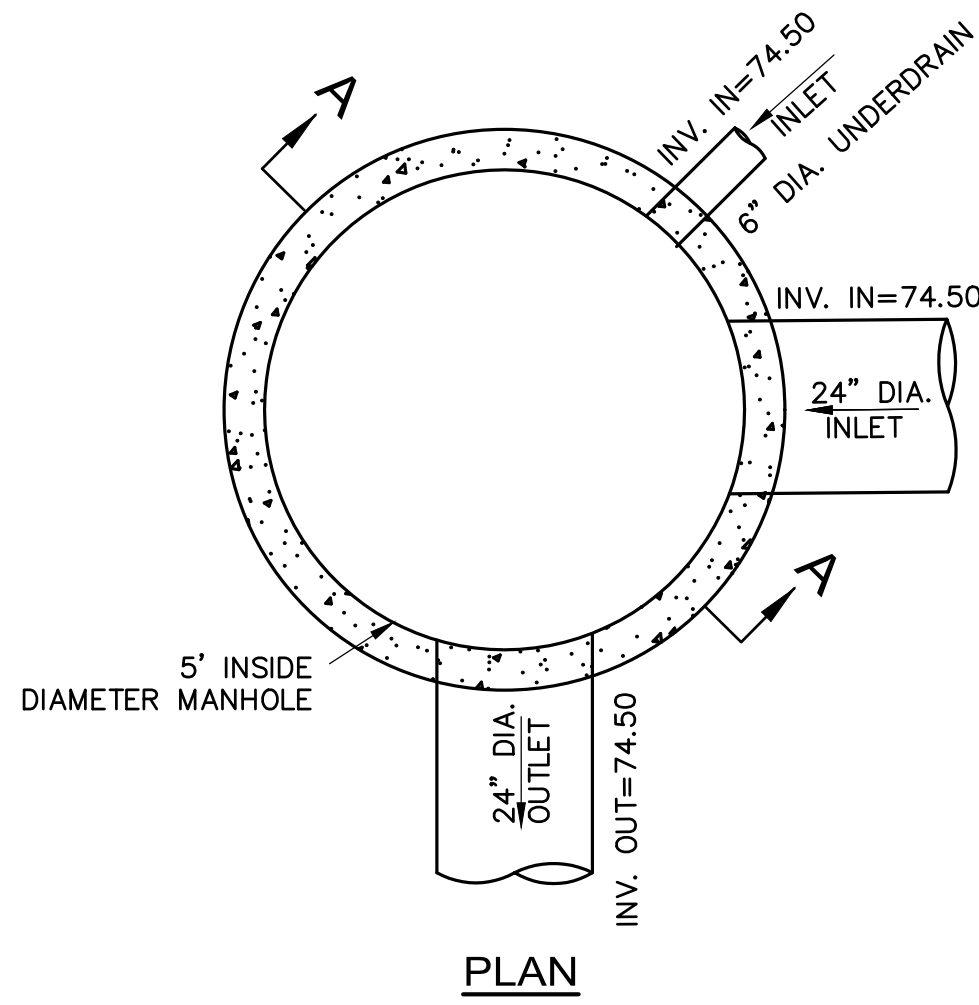
STORMTECH SC-740
SUBSURFACE DETENTION SYSTEM CROSS SECTION
NOT TO SCALE



10' PRECAST CULVERT
NOT TO SCALE

15' PRECAST CULVERT
NOT TO SCALE

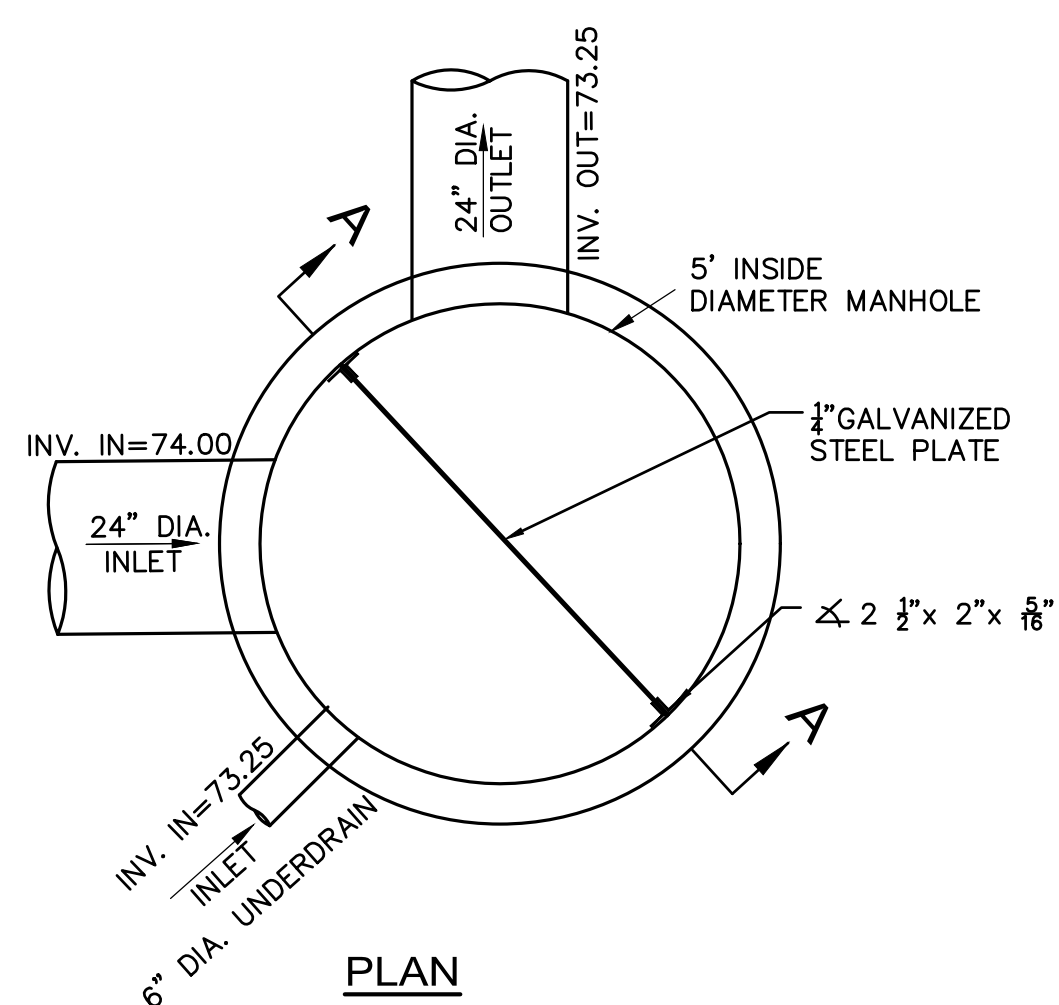
PRECAST CULVERT - FOUNDATION DETAIL
NOT TO SCALE



SECTION A-A

OUTLET CONTROL STRUCTURE - OCS 401
(SUBSURFACE SYSTEM #1)

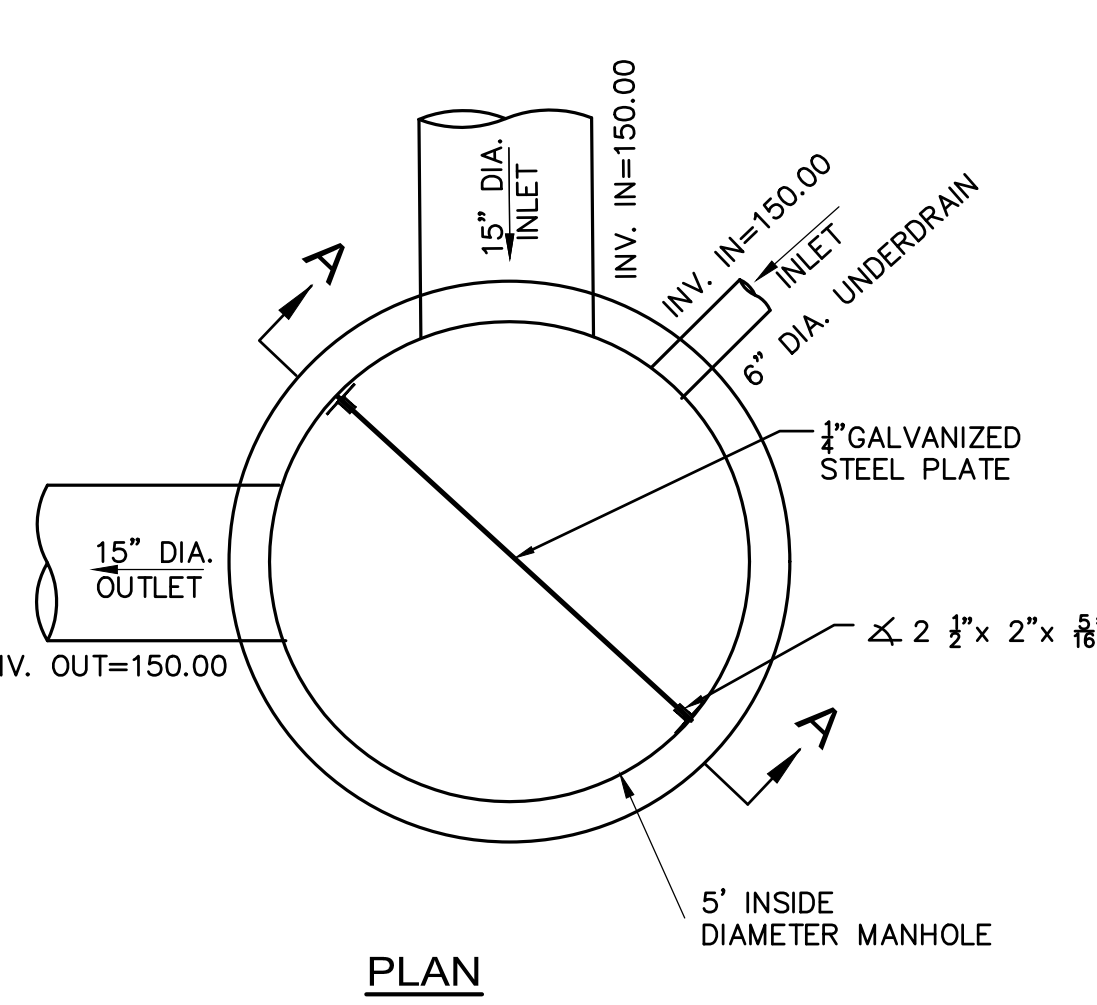
NOT TO SCALE



SECTION A-A

OUTLET CONTROL STRUCTURE - OCS 402
(SUBSURFACE SYSTEM #2)

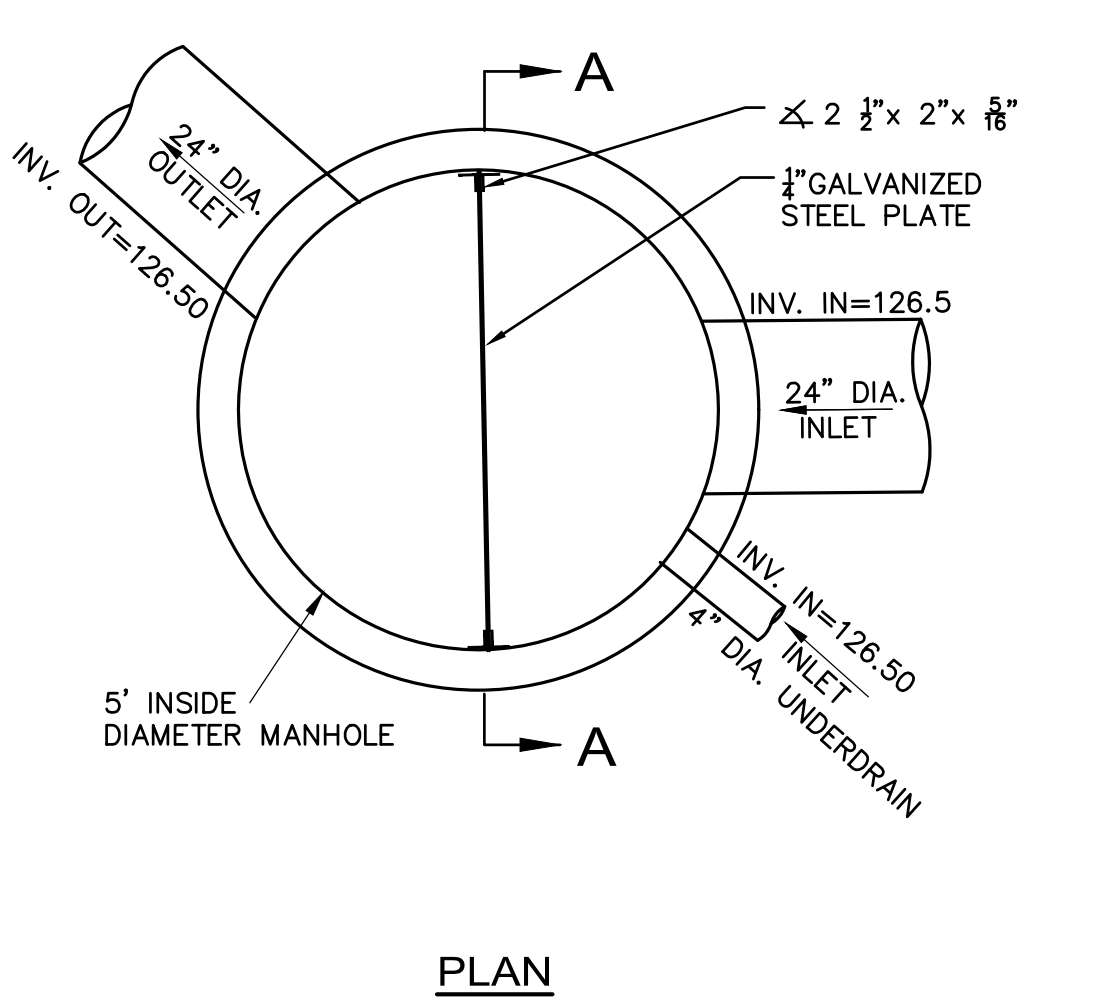
NOT TO SCALE



SECTION A-A

OUTLET CONTROL STRUCTURE - OCS 403
(SUBSURFACE SYSTEM #3)

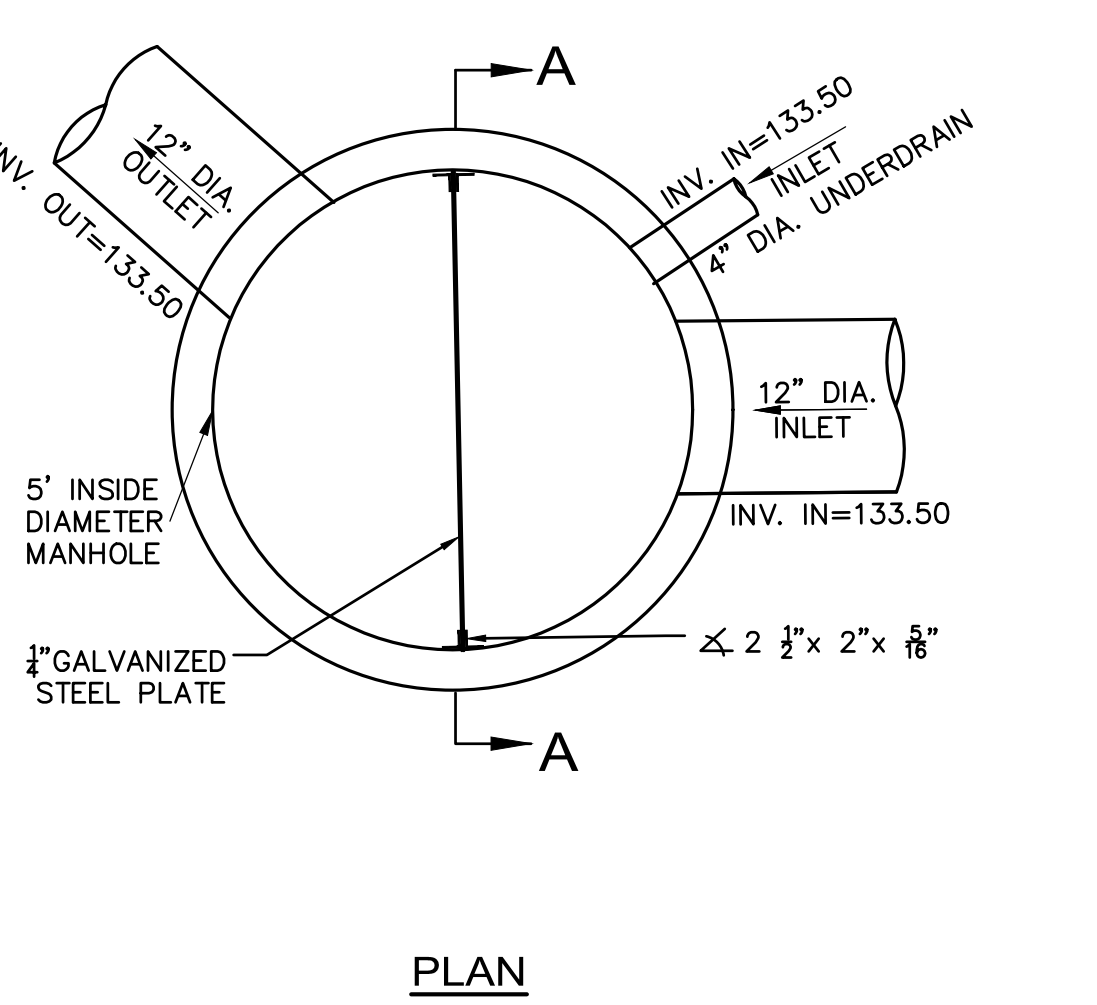
NOT TO SCALE



SECTION A-A

OUTLET CONTROL STRUCTURE - OCS 404
(SUBSURFACE SYSTEM #4)

NOT TO SCALE



SECTION A-A

OUTLET CONTROL STRUCTURE - OCS 405
(SUBSURFACE SYSTEM #5)

NOT TO SCALE

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SUBMISSION

JANUARY 13, 2023

CIVIL SITE
DETAILS III

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

C-702

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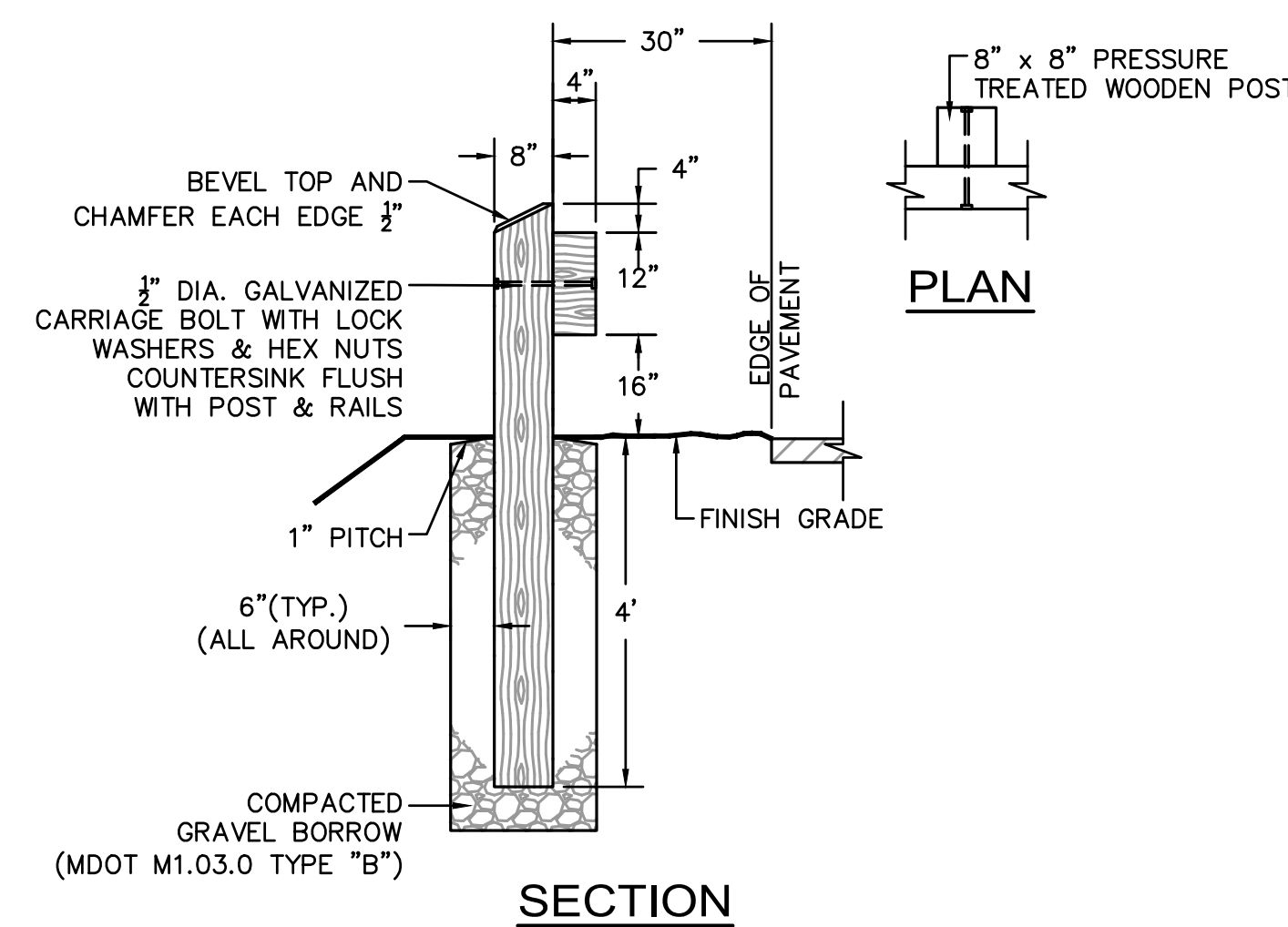
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NITSCH PROJECT No. 13872

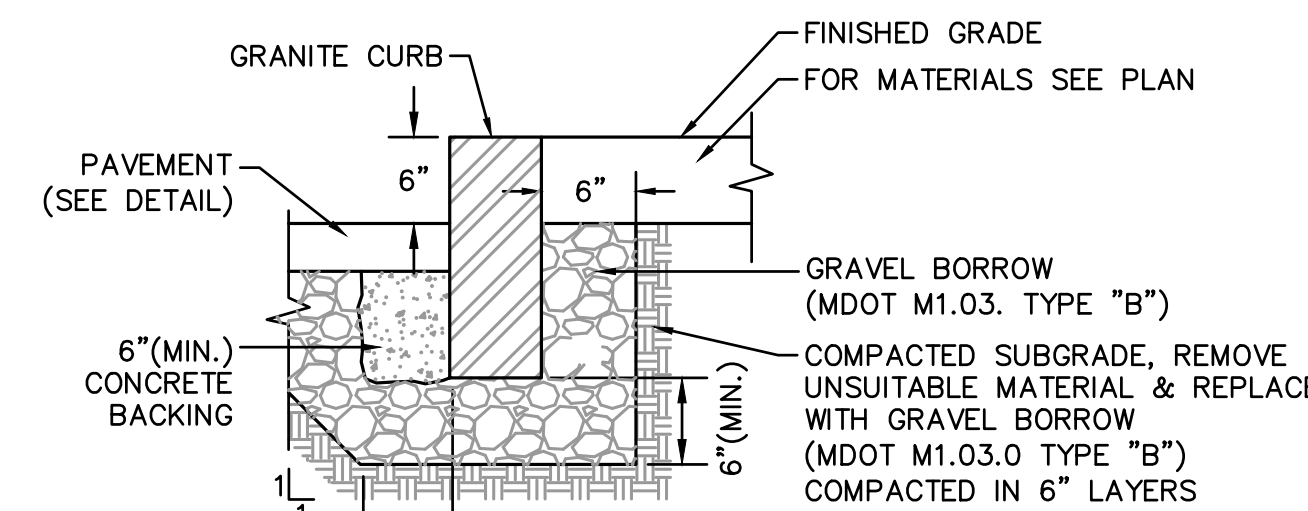


NOTES:

1. ALL WOOD SHALL BE SELECT STRUCTURAL GRADE SOUTHERN YELLOW PINE OR DOUGLAS FIR, S-4-S.
2. ALL WOOD SHALL BE FULL CELL PROCESS PRESSURE TREATED IN ACCORDANCE AWPB - LP33.
3. SPACE POSTS 7'-9" O.C. MAXIMUM.
4. RAIL ENDS SHALL BE BURIED OR HAVE A TERMINAL SECTION.
5. GUARD RAIL AND POST SHALL COMPLY WITH MDT STANDARD SPECIFICATIONS M8.07.0.

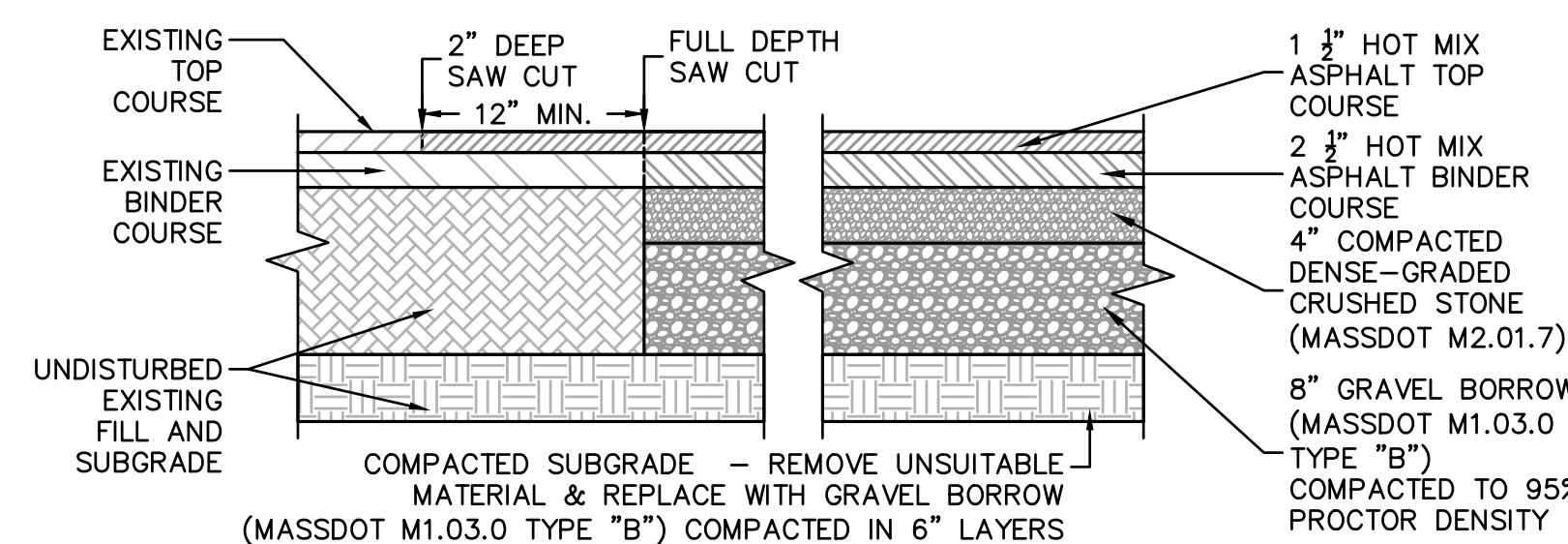
TIMBER GUARD RAIL DETAIL

NOT TO SCALE



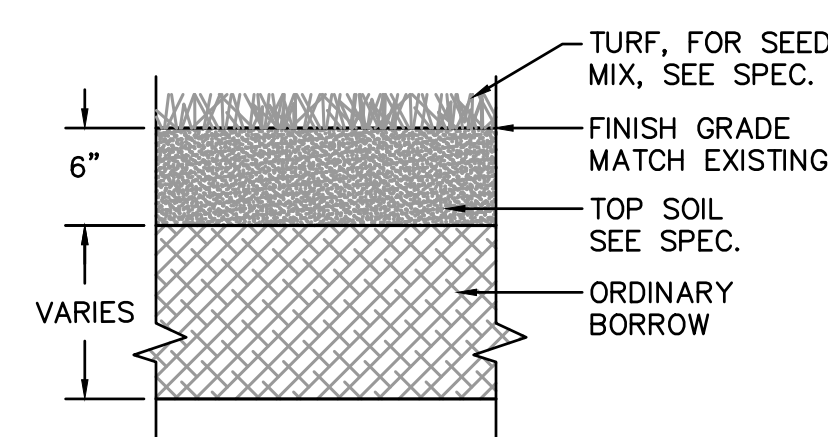
VERTICAL GRANITE CURB SETTING DETAIL

NOT TO SCALE



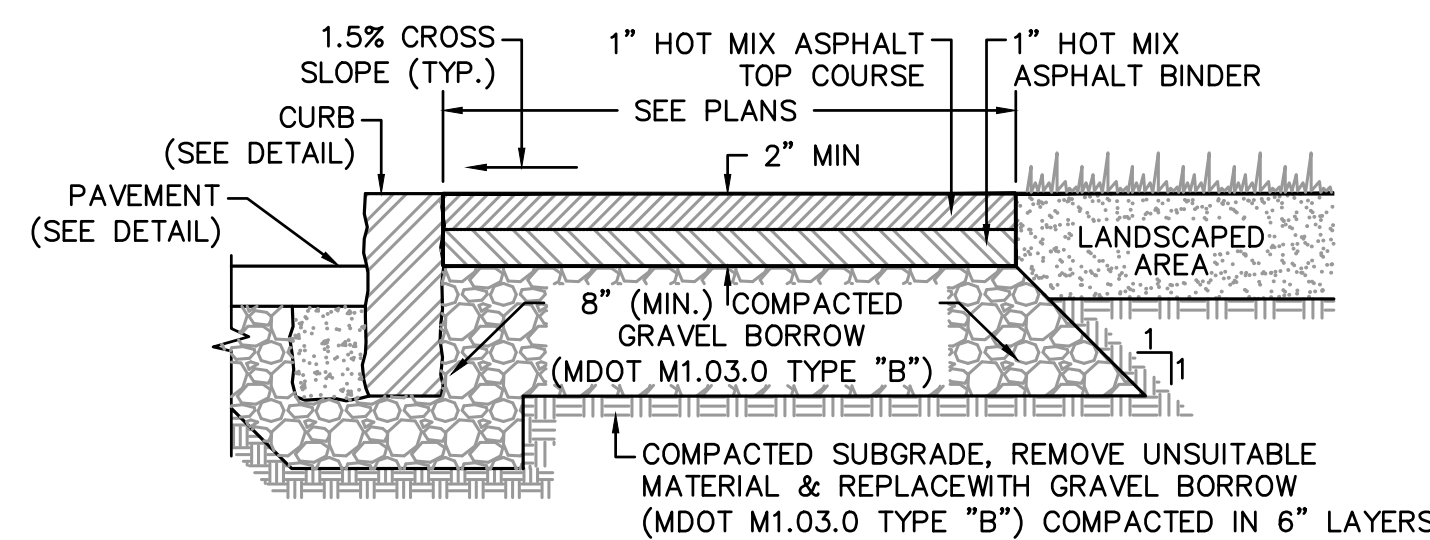
HOT MIX ASPHALT PAVING (TWO COURSES) DETAIL

NOT TO SCALE



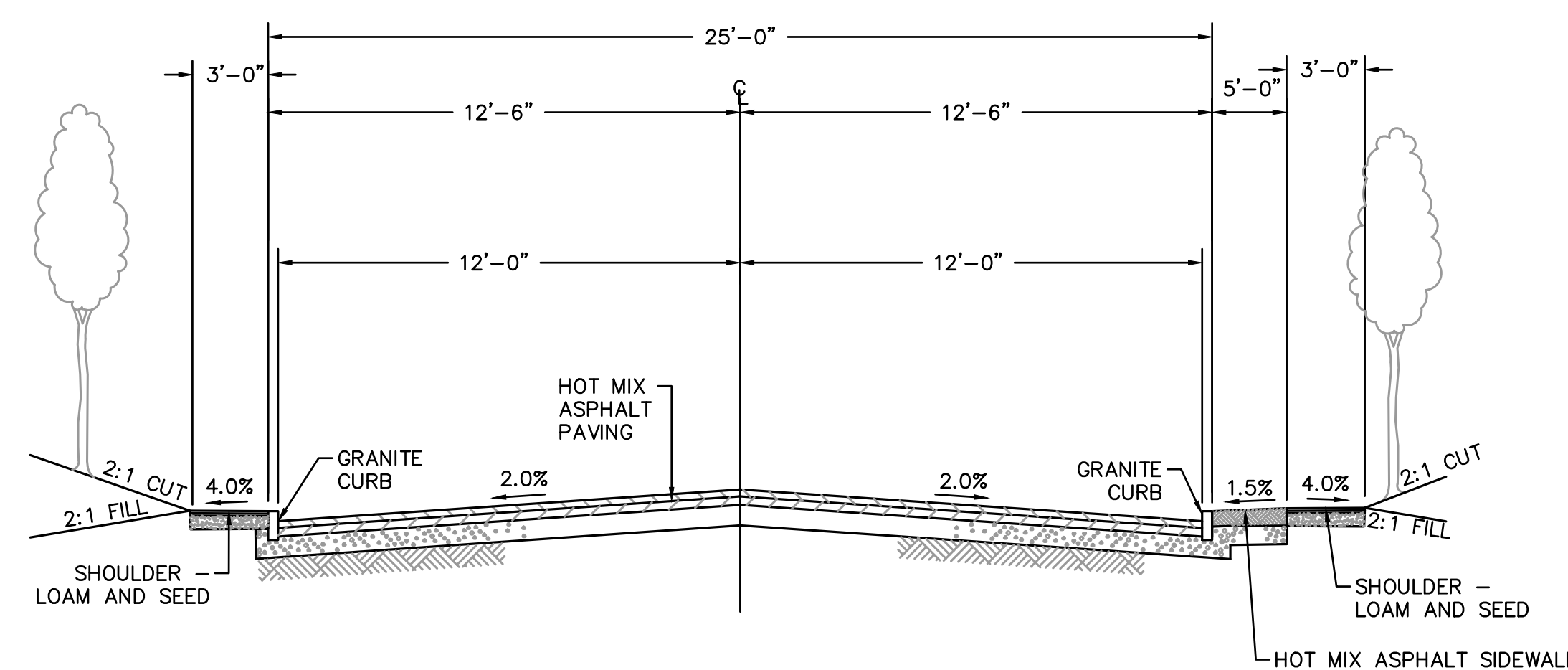
LOAM AND SEED DETAIL

NOT TO SCALE



HOT MIX ASPHALT SIDEWALK DETAIL

NOT TO SCALE



DRIVEWAY

NOT TO SCALE

NOTES:

1. ALL SLOPES TO BE LOAM & SEEDED TO RIGHT OF WAY, OR TO EXISTING GRADE.

FOR REFERENCE ONLY

JANUARY 13, 2023

CIVIL SITE DETAILS VI

Scale: AS NOTED

Joh No : 13872

Figure 10.10

Date: JANUARY 10, 2011

C-705