

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 COMMENCING 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 SHALL BE BACKFILLED AND COMPARISON 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 COMMENCE CONSTRUCTION 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 WHERE SPECIFIED ON THE DRAWINGS OR NOT.

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE "MASSACHUSETTS EROSION CONTROL MANUAL" GUIDELINES FOR URBAN AND SUBURBAN AREAS" PREPARED BY DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF RESOURCE PROTECTION, AND THE CURRENT NPDES GENERAL PERMIT FOR STORMWATER DRAINAGE FROM CONSTRUCTION.
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 SITE CONDITIONS AND THE INTENDED PURPOSE OF ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, OR AS DIRECTED BY CONTROLLING MUNICIPAL AGENCIES.
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 AND DURING ALL PHASES OF CONSTRUCTION AND 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 CONDUCTED TO ENSURE THAT 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 ARE TO BE PROVIDED AT A MAXIMUM OF TWO HUNDRED (200) FOOT SPACING, OR LESS AS SITE-SPECIFIC CONDITIONS WARRANT, WITHIN ALL EXISTING WETLAND RESOURCE AREAS, AND 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 DENUSED SURFACE THAT WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS SHALL BE PROTECTED BY EROSION AND SEDIMENTATION MEASURES. 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 PERMITTING AUTHORITY OR OWNER.
14. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED MEANS TO PREVENT EROSION AND SEDIMENTATION DURING PAVED OR PAVING 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 COMPLETION OF SITE CONSTRUCTION, BUT ONLY WHEN DIRECTED BY THE PERMITTING AUTHORITY OR OWNER. EROSION CONTROL, SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "TOPOGRAPHIC SURVEY", PREPARED BY NITSCH, DATED 6/3/2020.
2. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 27B, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE CITY OF BOSTON OR THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, TO NATURAL GAS, WATER, SEWER, FIBER OPTIC, TELEPHONE, AND OTHER UTILITIES THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, 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 800-485-5844 PRIOR TO ANY EXCAVATION.
3. 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.
4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS.
5. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN, PRECISELY LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING RECORD DRAWINGS FROM THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS AND ELEVATIONS OF UTILITIES SHOWN ON RECORDING DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING, INC. IMMEDIATELY RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMIT OF WORK AS DEFINED ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR MAKE GOOD ANY DAMAGE TO ANY SIDEWALKS, DRIVEWAYS OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
8. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND CONSTRUCTION DOCUMENTS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PROJECT SITE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, REGULATIONS, ORDINANCES AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
10. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
12. ELEVATIONS REFER TO NAVD88 (REFER TO THE EXISTING CONDITIONS SURVEY FOR ADDITIONAL INFORMATION).
13. THE CONTRACTOR SHALL COMPLY WITH THE ORDER OF CONDITIONS DATED XXXX XX, XXXX AND ISSUED BY THE XXXX CONSTRUCTION COMMISSION (DEF XXXX-XXX).
14. FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT.

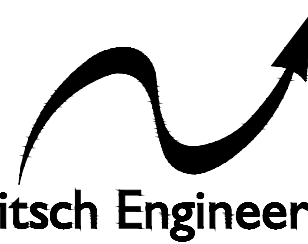
1. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE LOCAL MUNICIPALITY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS NECESSARY TO UTILITY WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL PERMISSIONS FOR, AND FOR CONDUCTING ALL PREPARATIONS RELATED TO, WORK AFFECTING ANY EXISTING UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY COMPANIES, 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 7 DAYS PRIOR TO THE COMMENCEMENT OF ANY UTILITY WORK (AND NOT MORE THAN 30 DAYS PRIOR TO ANY CONSTRUCTION).
3. 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.
4. ALL WATER, SEWER, AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE LOCAL MUNICIPALITY.
5. GAS, TELECOMMUNICATIONS AND ELECTRIC SERVICES ARE TO BE DESIGNED BY EACH UTILITY COMPANY IN COORDINATION WITH THE MECHANICAL, ELECTRIC, AND PLUMBING CONSULTANTS.
6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES OF NEW UTILITIES WITH GAS, TELECOMMUNICATION AND ELECTRICAL SERVICES.
7. INSTALL WATER LINES WITH A MINIMUM OF FIVE FEET OF COVER AND A MAXIMUM OF SEVEN FEET COVER FROM THE FINAL DESIGN GRADES.
8. 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 IS TO REMAIN AND TO PROPOSE BE EXISTING WATER LINE TO REMAIN BOTH WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINDED DUCTILE IRON PIPE FOR A DUCTILE IRON-TO-IRON JOINT. THE CENTER OF GRAVITY OF THE FULL LENGTH OF WATER PIPE SHALL BE CENTERED OVER THE SEWER AT THE CROSSING.
9. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED AND/OR REMOVED & DISPOSED.
10. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR TRENCHING, BACKFILLING, AND SURFACE RESTORATION FOR GAS UTILITY SYSTEMS.
11. ALL ONSITE UTILITIES SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
12. ALL EXISTING AND PROPOSED MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, CASTINGS, ETC. SHALL BE RAISED TO FINISHED GRADE FOR FINAL GRADING AND PAVING CONSTRUCTION.
13. ALL GRATES IN WALKWAYS SHALL BE ADA COMPLIANT.

	LIMIT OF WORK
	EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS
	EROSION CONTROL BARRIER
X — X	CONSTRUCTION FENCE
— W —	DOMESTIC WATER PIPE
— FP —	FIRE PROTECTION PIPE
S — S	SANITARY SEWER PIPE
— D —	STORM DRAIN PIPE
— G —	GAS PIPE
— E —	ELECTRIC DUCT/BANK
T/C —	TELECOM DUCT/BANK
— FM —	FORCE MAIN
— CW —	CHILLED WATER PIPE
— STM —	STEAM PIPE
— CR —	CONDENSATE RETURN PIPE
— HW —	HOT WATER PIPE/RETURN
— HHW —	HEATING HOT WATER
— RW —	REUSE WATER PIPE
— GW —	GREY WATER PIPE
— 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
STMH ■	STEAM MANHOLE
TMH ■	TELECOM MANHOLE
EMH ■	ELECTRIC MANHOLE
CW V	CHILLED WATER VALVE
WV V	WATER VALVE
HYD 🔥	FIRE HYDRANT

- ACCESS BASIN
- AREA
- BOTTOM OF CURB ELEVATION
- BOTTOM OF WALL ELEVATION
- CATCH BASIN
- CAFE COOD BERM
- CAST IRON
- J CONTROL JOINT
- CENTER LINE
- CLEANOUT
- CENTER OF PIPE
- CARRIER PIPE
- CORRUGATED POLYETHYLENE PIPE
- DOUBLE CATCH BASIN
- DUCTILE IRON PIPE CEMENT LINED
- DRAIN MANHOLE
- DRAIN MANHOLE
- EXPANSION JOINT
- EXPANSION JOINT
- ELECTRIC MANHOLE
- FOUNDATION DRAIN
- FINISHED FLOOR ELEVATION
- HIGH POINT
- FIRE HYDRANT
- INVERT ELEVATION
- LINEAR FEET
- LIMIT OF WORK
- LOW POINT
- LAB WASTE
- MAINTAIN AND PROTECT
- NOT IN CONTRACT
- ON CENTER
- OUTLET CURB STRUCTURE
- PERMISTED DRAIN
- PERFORATED
- POLYVINYL CHLORIDE PIPE
- REMOVE AND DISPOSE
- REMOVE AND DISPOSE
- ROOF DRAIN
- RIM ELEVATION
- SEWER MANHOLE
- SEWER SERVICE
- SEWER SERVICE
- TOP OF CURB ELEVATION
- TOP OF WALL ELEVATION
- TELECOM MANHOLE
- TELECOM MANHOLE
- TELECOM MANHOLE
- TOP OF PIPE
- TOP OF DUCT BANK
- TYPICAL
- UNDERDRAIN
- UNDERSLAB DRAIN
- VERTICAL GRAB CURB
- WATER QUALITY INLET
- WATER QUALITY STRUCTURE
- WATER VALVE

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Date: August 4, 2024

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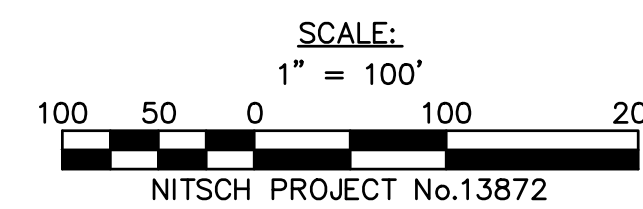
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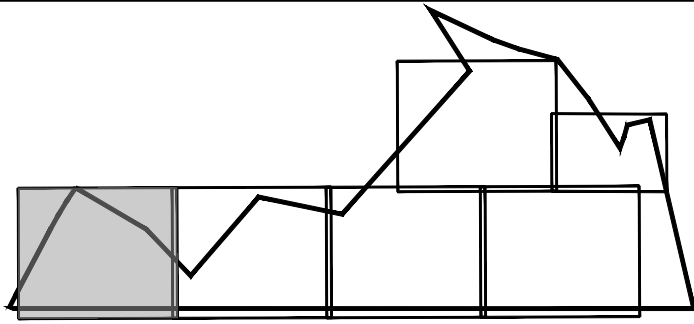
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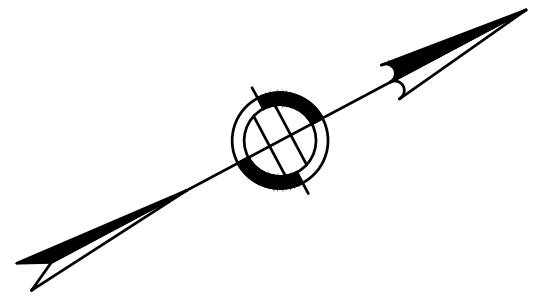
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KEY MAP
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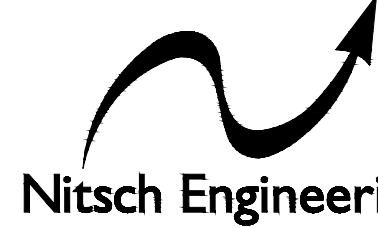


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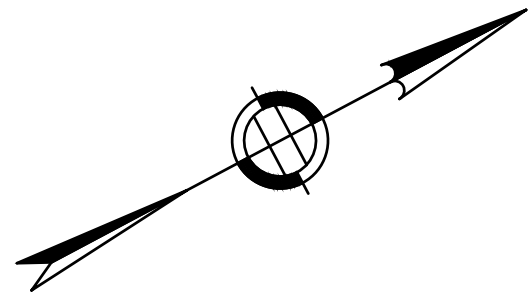
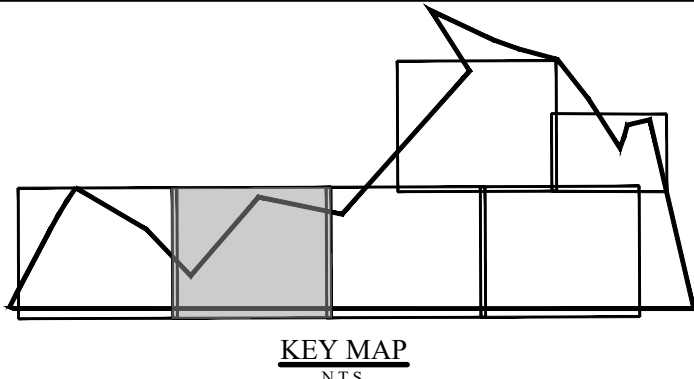
UTILITY DEMO
PLAN

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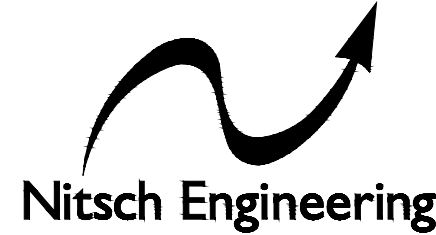


SCALE:
1" = 20'
20 10 0 20 40



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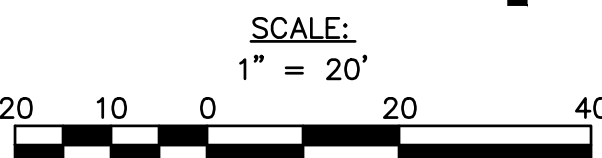
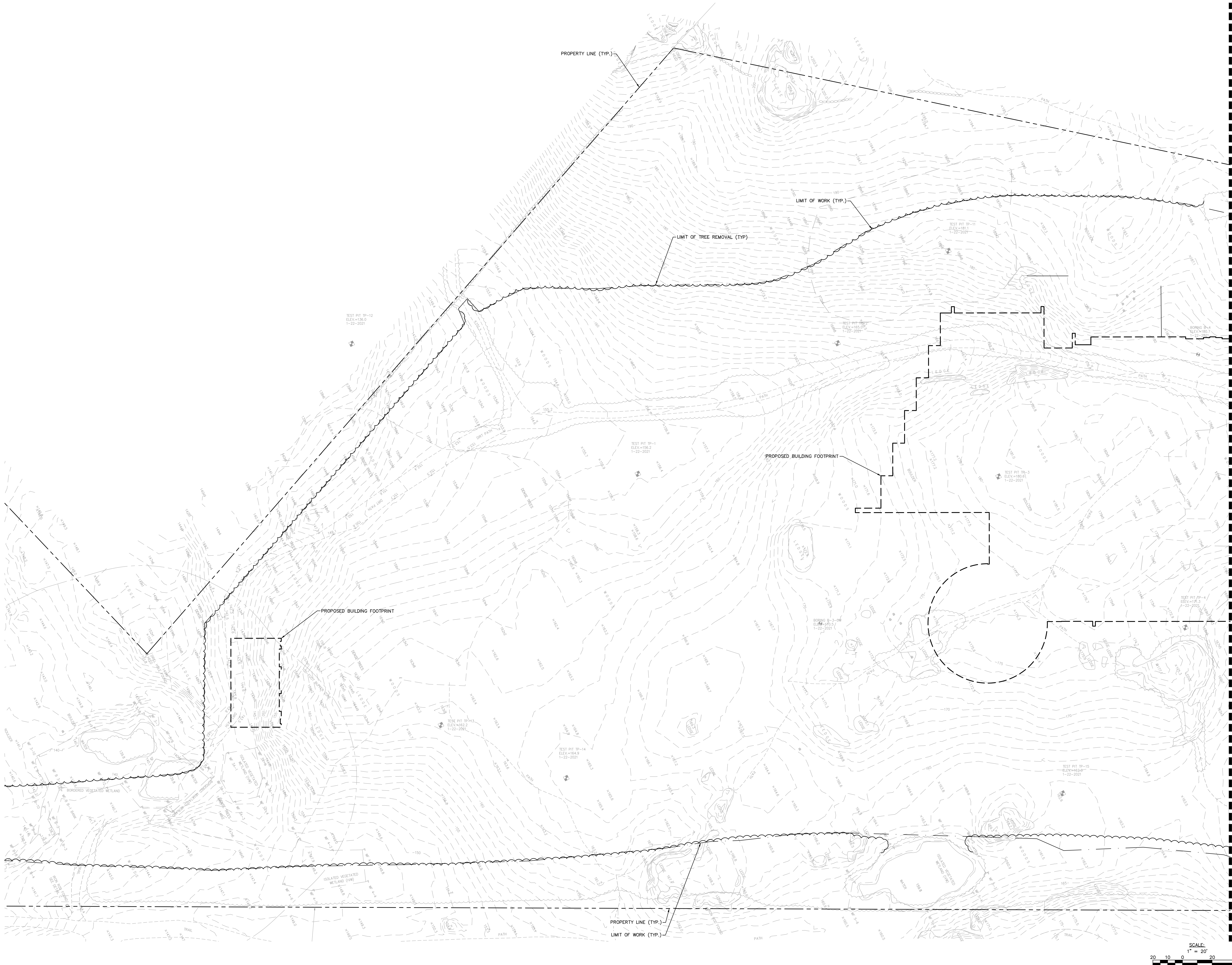
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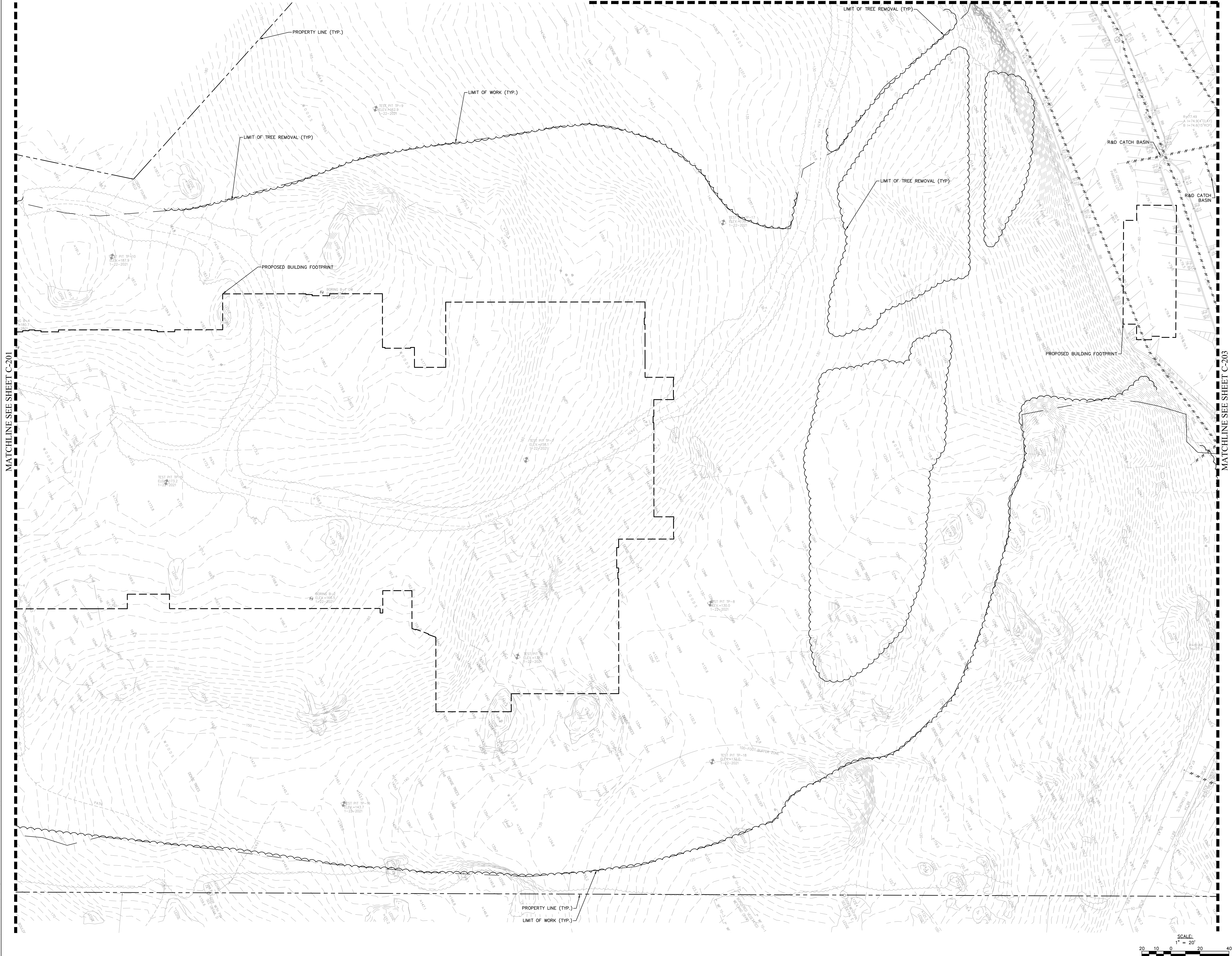
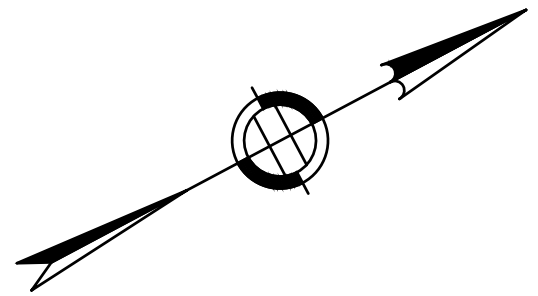
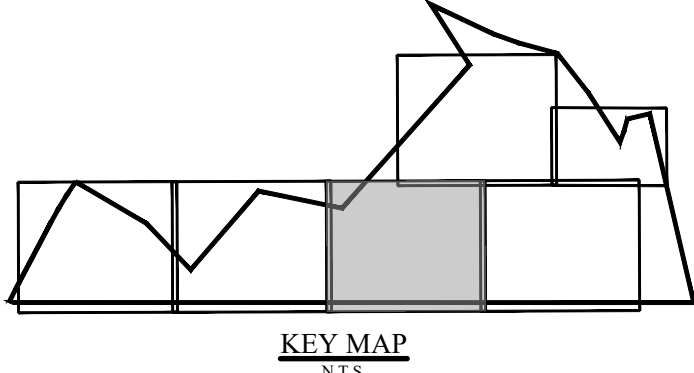
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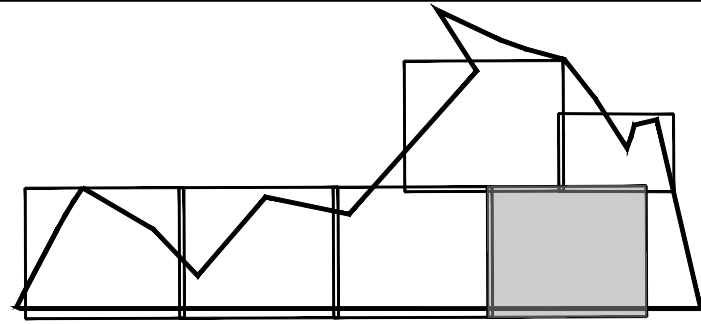
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UTILITY DEMO
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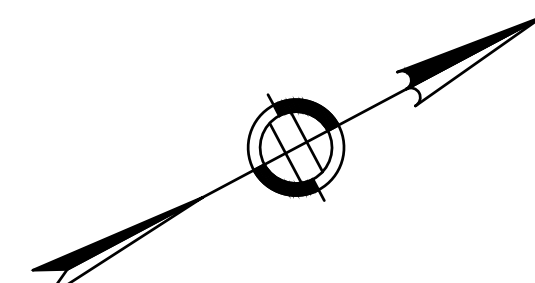
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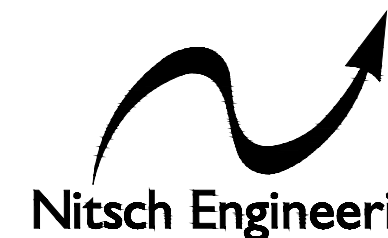
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PROJECT NO. 13872
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CHECKED BY: WL
IN CHARGE: WL
APPROVED BY: WL
SCALE: 1" = 20'



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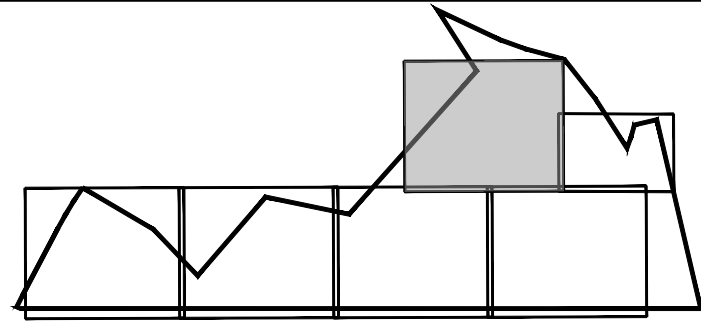
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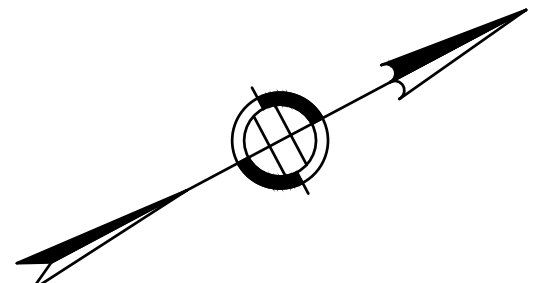
UTILITY DEMO
PLAN

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-203

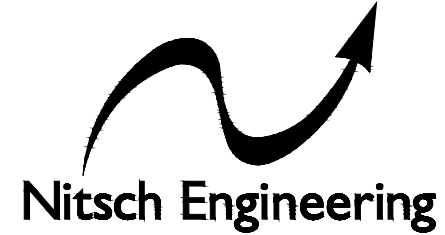


KEY MAP
S15



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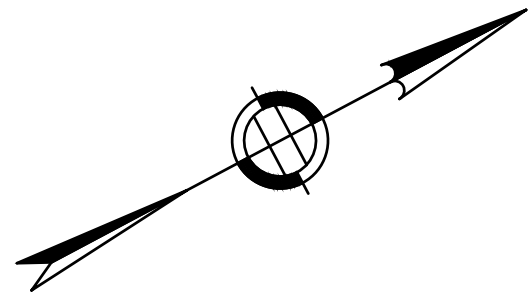
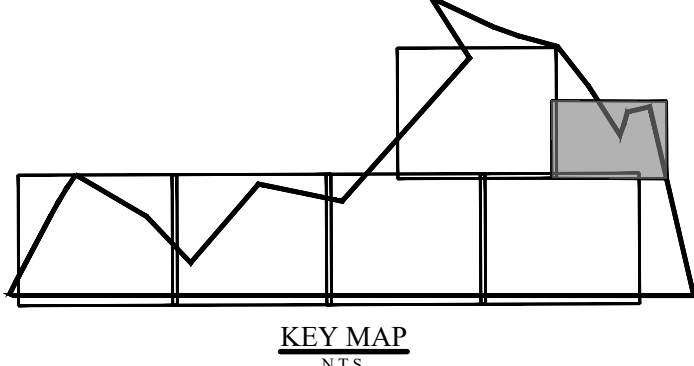
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Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-204

MATCHLINE SEE SHEET C-202

MATCHLINE SEE SHEET C-203

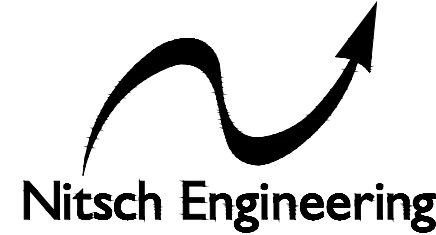
SCALE:
1" = 20'
20 10 0 10 20 40



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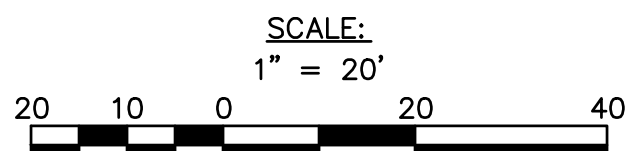
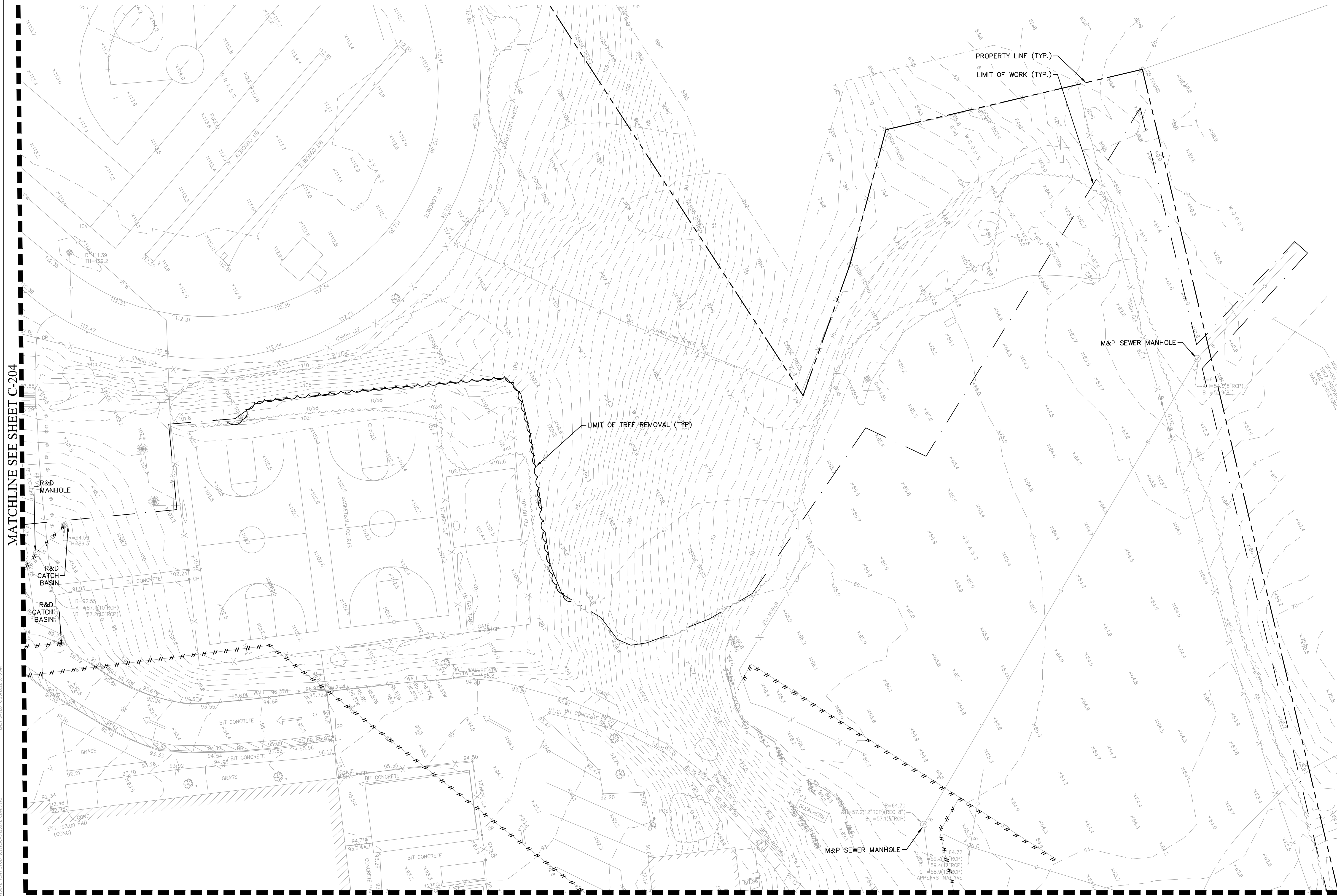
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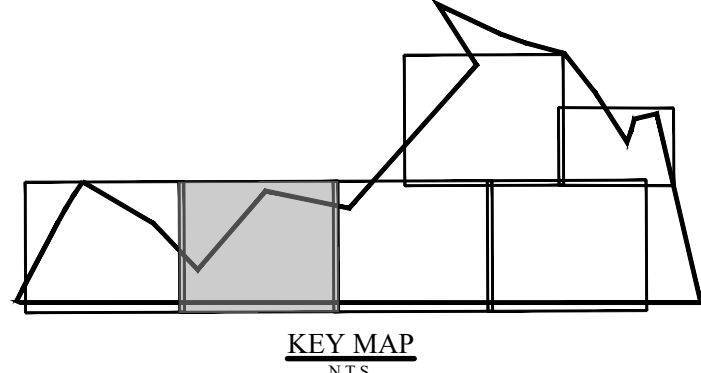
August 4, 2022

UTILITY DEMO
PLAN

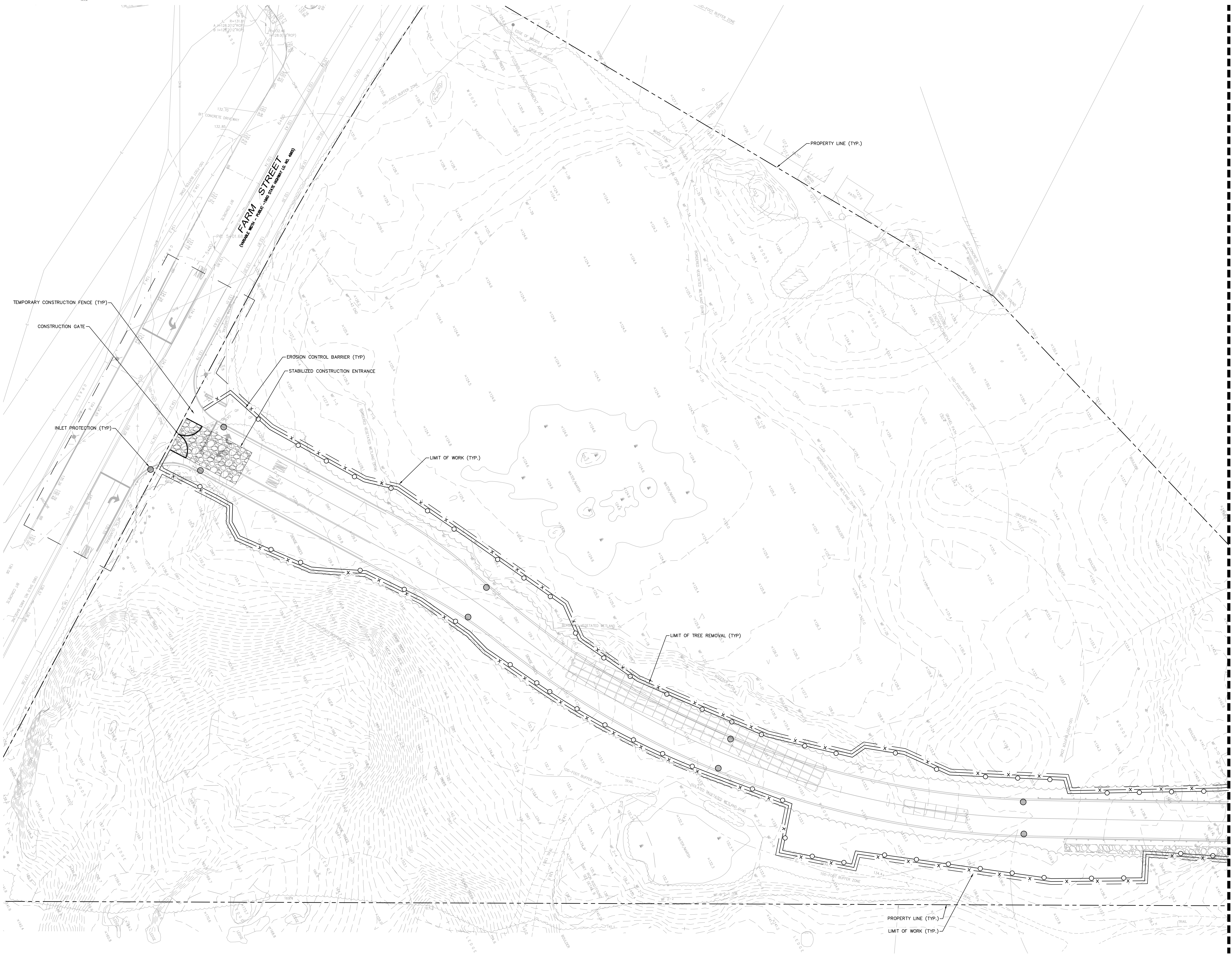
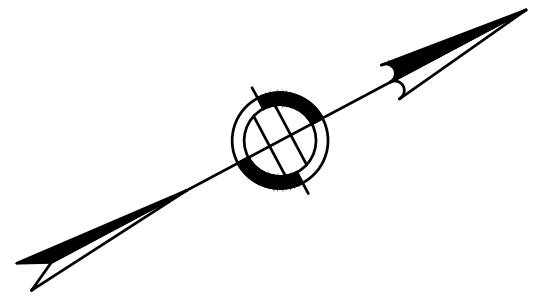
Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-205





- NOTES:
- 1) ALL PROPOSED AND EXISTING DRAINAGE INLETS SHALL HAVE SILT SACS/INLET PROTECTION INSTALLED DURING CONSTRUCTION
 - 2) CONTRACTOR TO LIMIT COMPACTION IN AREAS OF PROPOSED INFILTRATION
 - 3) LOCATION OF CONSTRUCTION FENCE AND EROSION CONTROL SET UP AND REMOVAL BETWEEN PHASES ARE THE CONTRACTOR'S RESPONSIBILITY



MATCHLINE SEE SHEET C-301

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August 4, 2022

**SEDIMENTATION
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CONTROL PLAN**

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-300

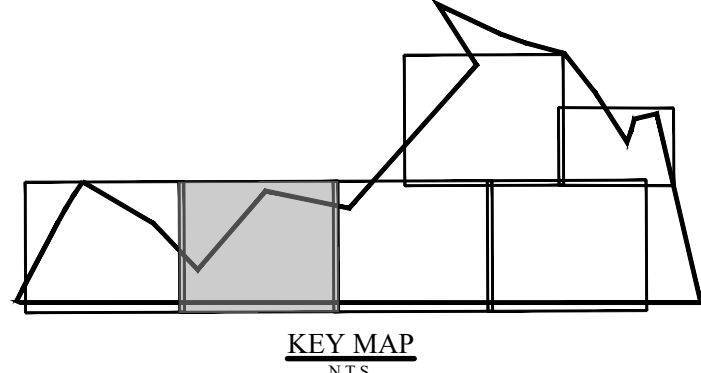
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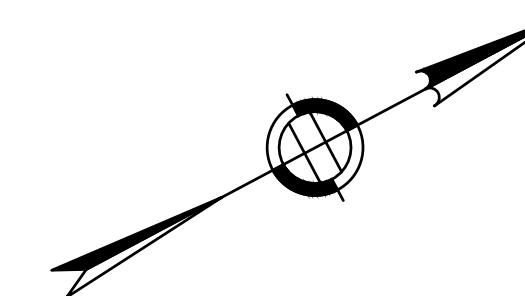
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- NOTES:
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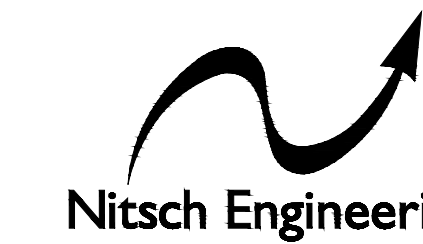


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**SEDIMENTATION
AND EROSION
CONTROL PLAN**

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

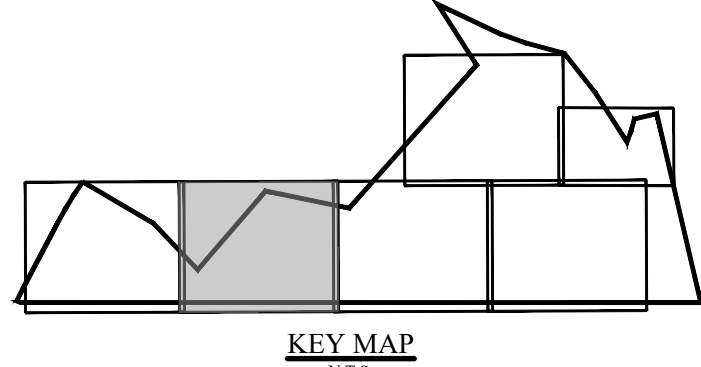
C-301

MATCHLINE SEE SHEET C-300

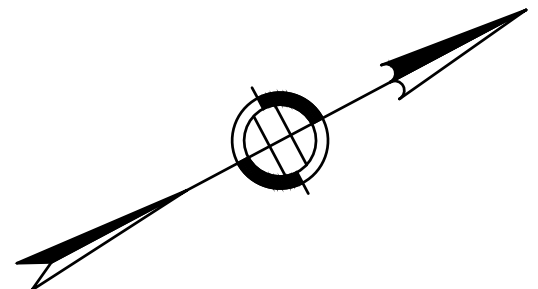
MATCHLINE SEE SHEET C-302

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



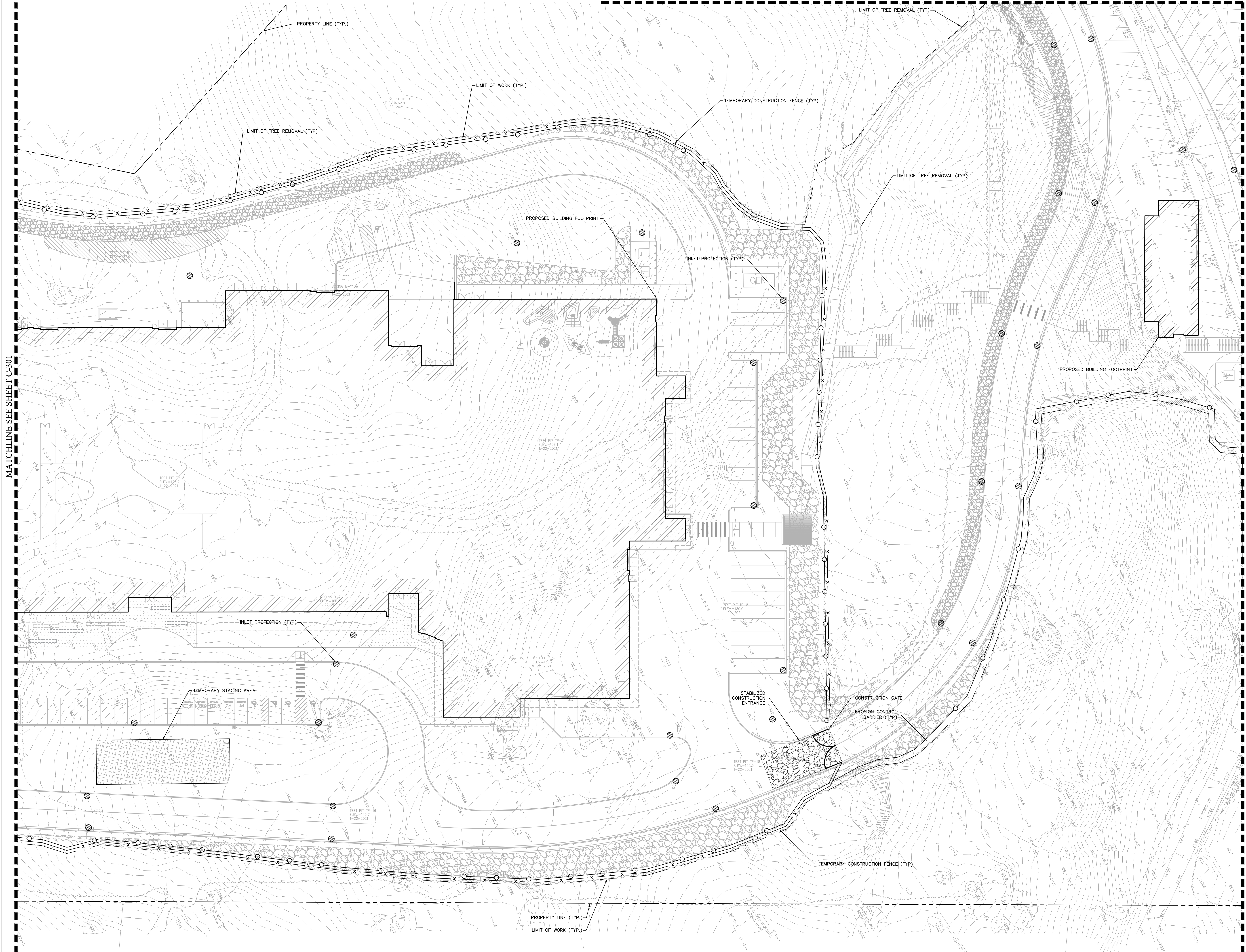
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MATCHLINE SEE SHEET C-304

MATCHLINE SEE SHEET C-301

MATCHLINE SEE SHEET C-303



SCALE:

1" = 20'

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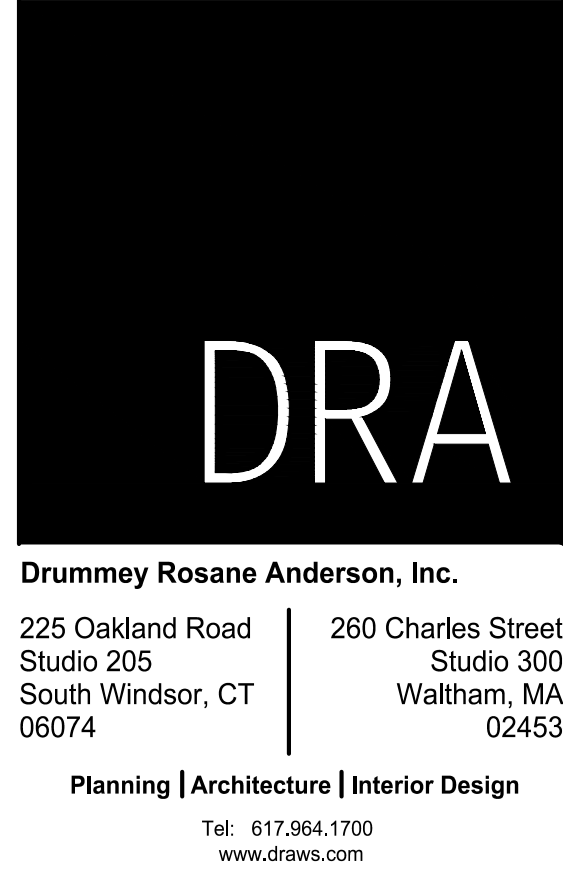
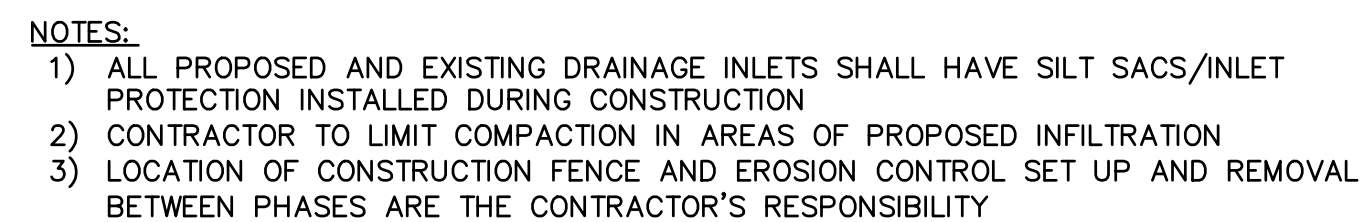
MSBA DESIGN
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SUBMISSION

August 4, 2022

SEDIMENTATION
AND EROSION
CONTROL PLAN

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-302



- Civil Engineering
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- Structural Engineering
- Green Infrastructure
- Planning
- GIS

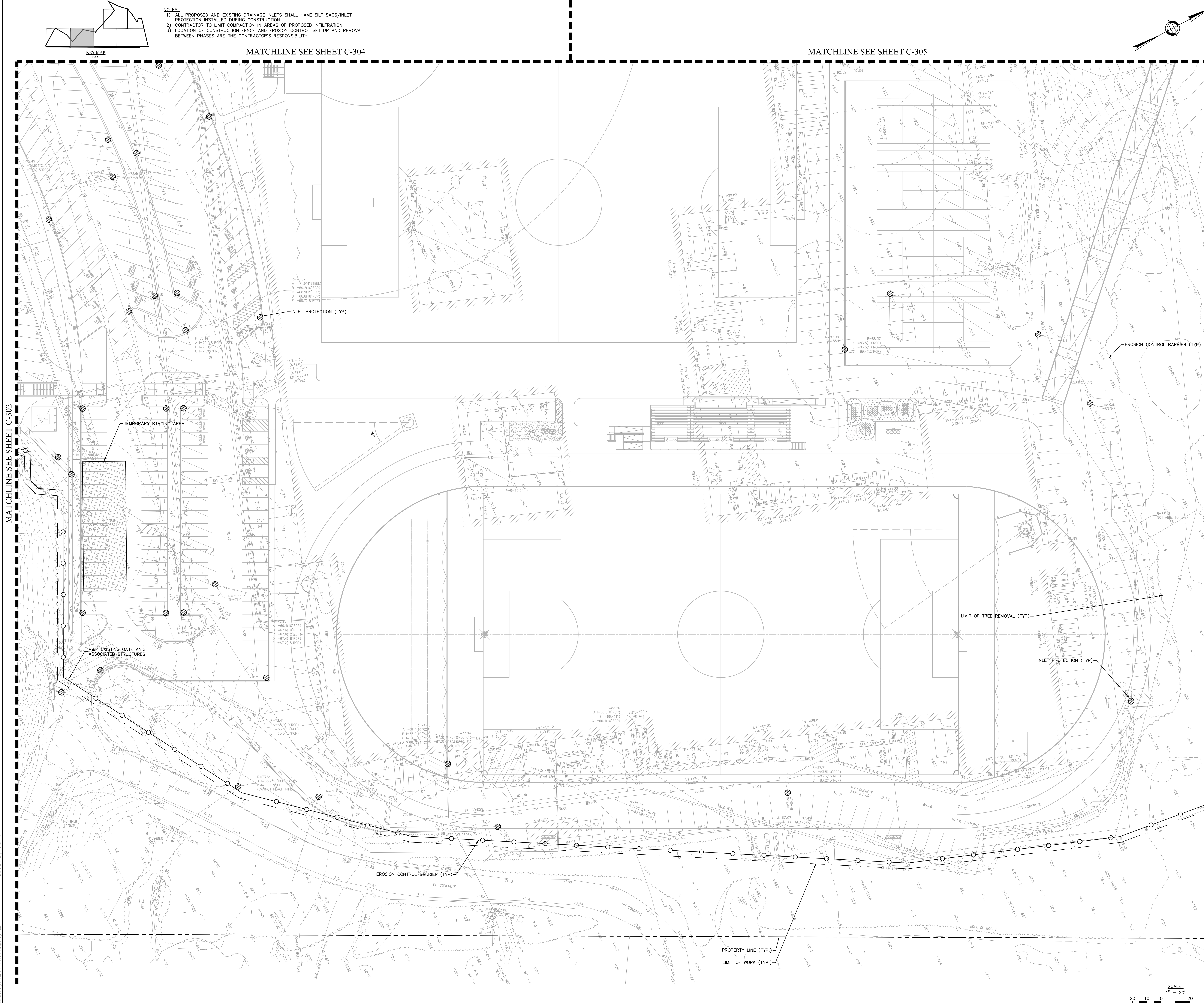
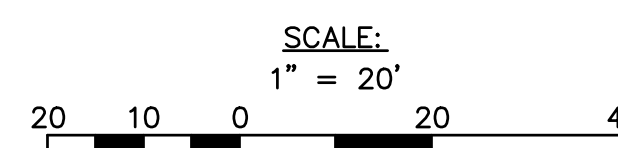
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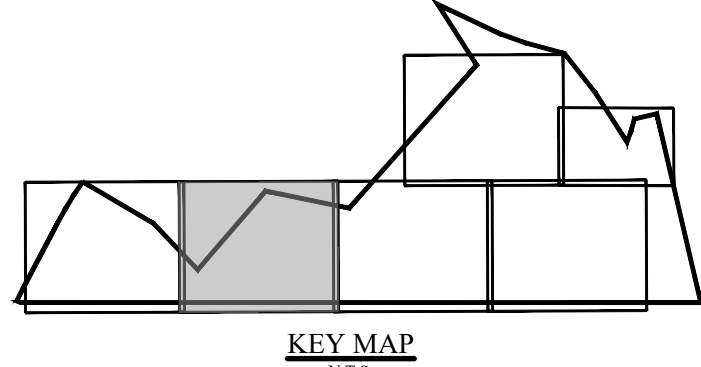
August 4, 2022

SEDIMENTATION AND EROSION CONTROL PLAN

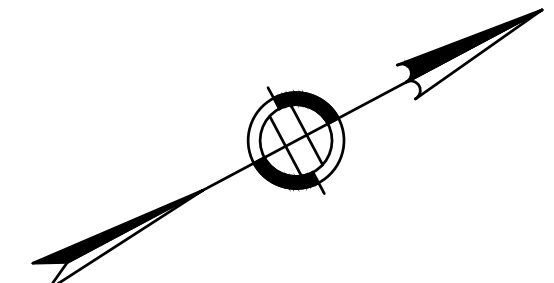
Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-303



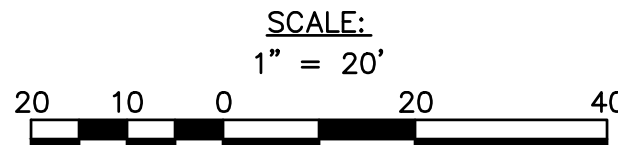


- NOTES:
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MATCHLINE SEE SHEET C-305

MATCHLINE SEE SHEET C-303

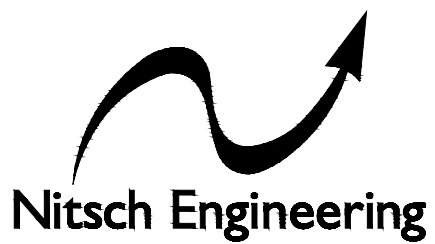


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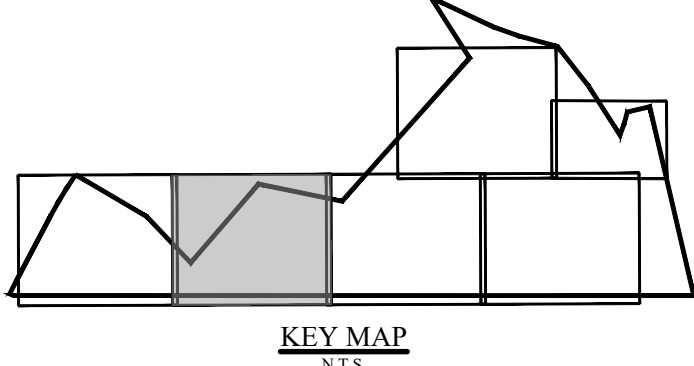
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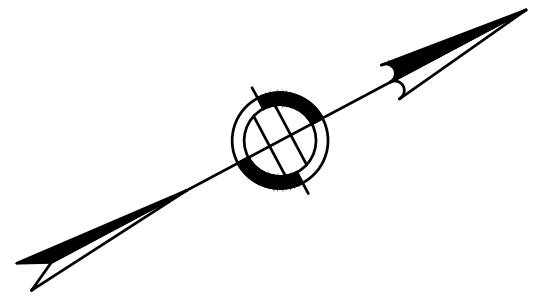
SEDIMENTATION
AND EROSION
CONTROL PLAN

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-304



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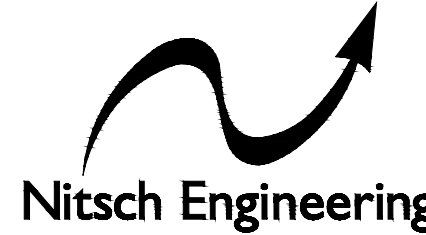


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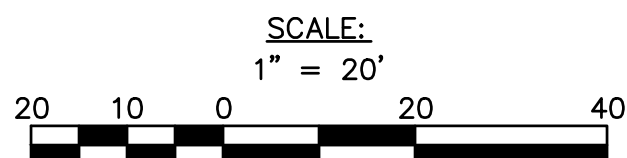
**SEDIMENTATION
AND EROSION
CONTROL PLAN**

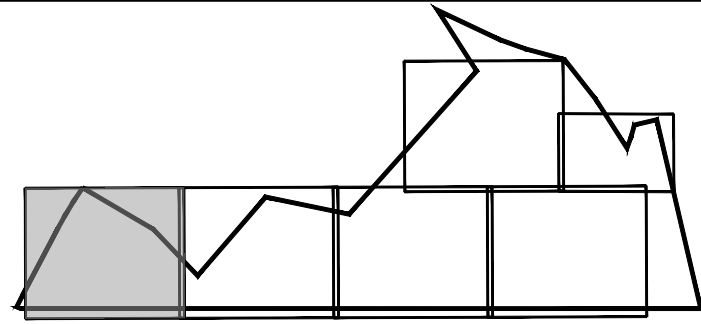
Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-305

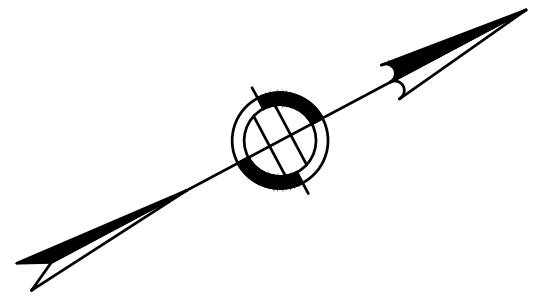
MATCHLINE SEE SHEET C-304

MATCHLINE SEE SHEET C-303





KEY MAP
STS

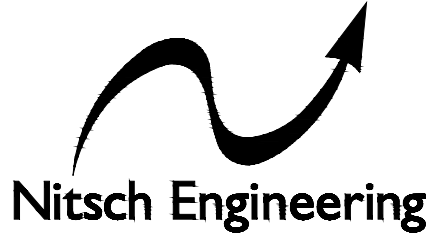


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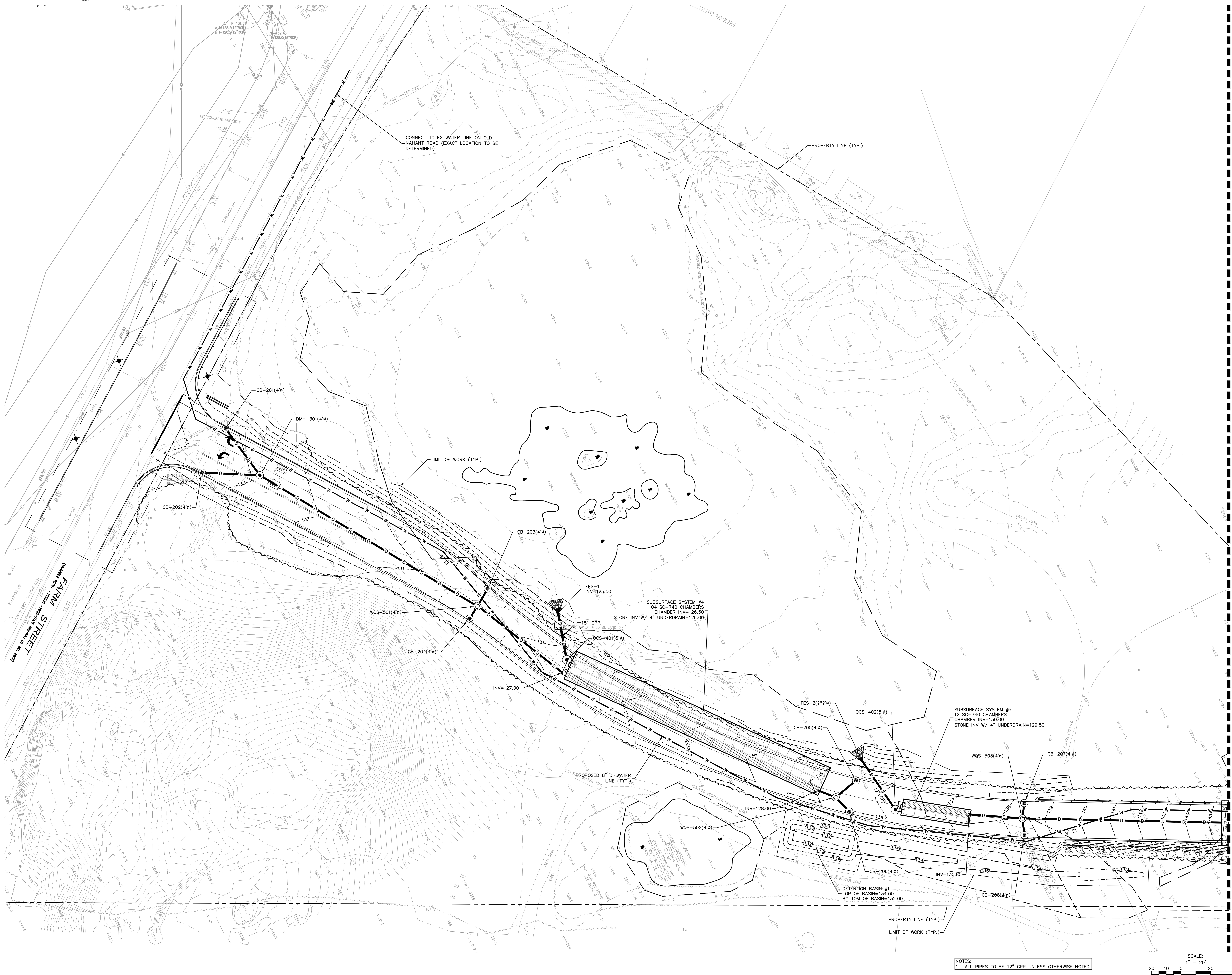
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August 4, 2022

UTILITY SITE PLAN

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-400

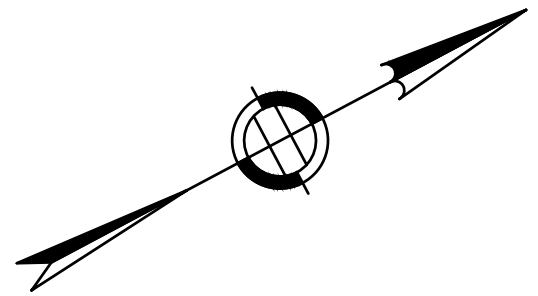


NOTES:
1. ALL PIPES TO BE 12" CPP UNLESS OTHERWISE NOTED.

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

MATCHLINE SEE SHEET C-401

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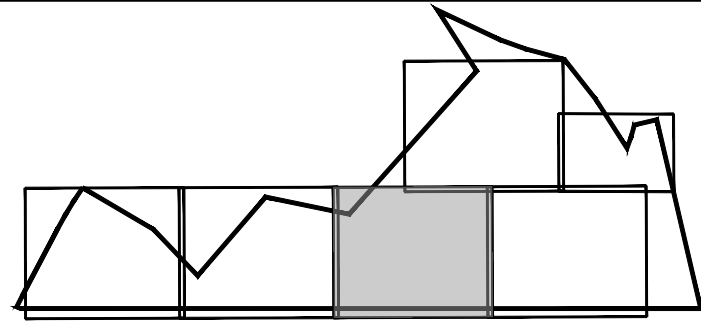


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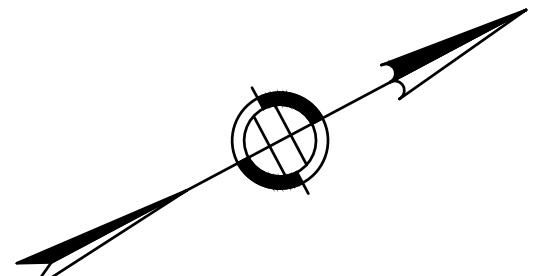
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 No.: 13872
 wn By: WL
 e: August 4, 2022

C-401

C-401



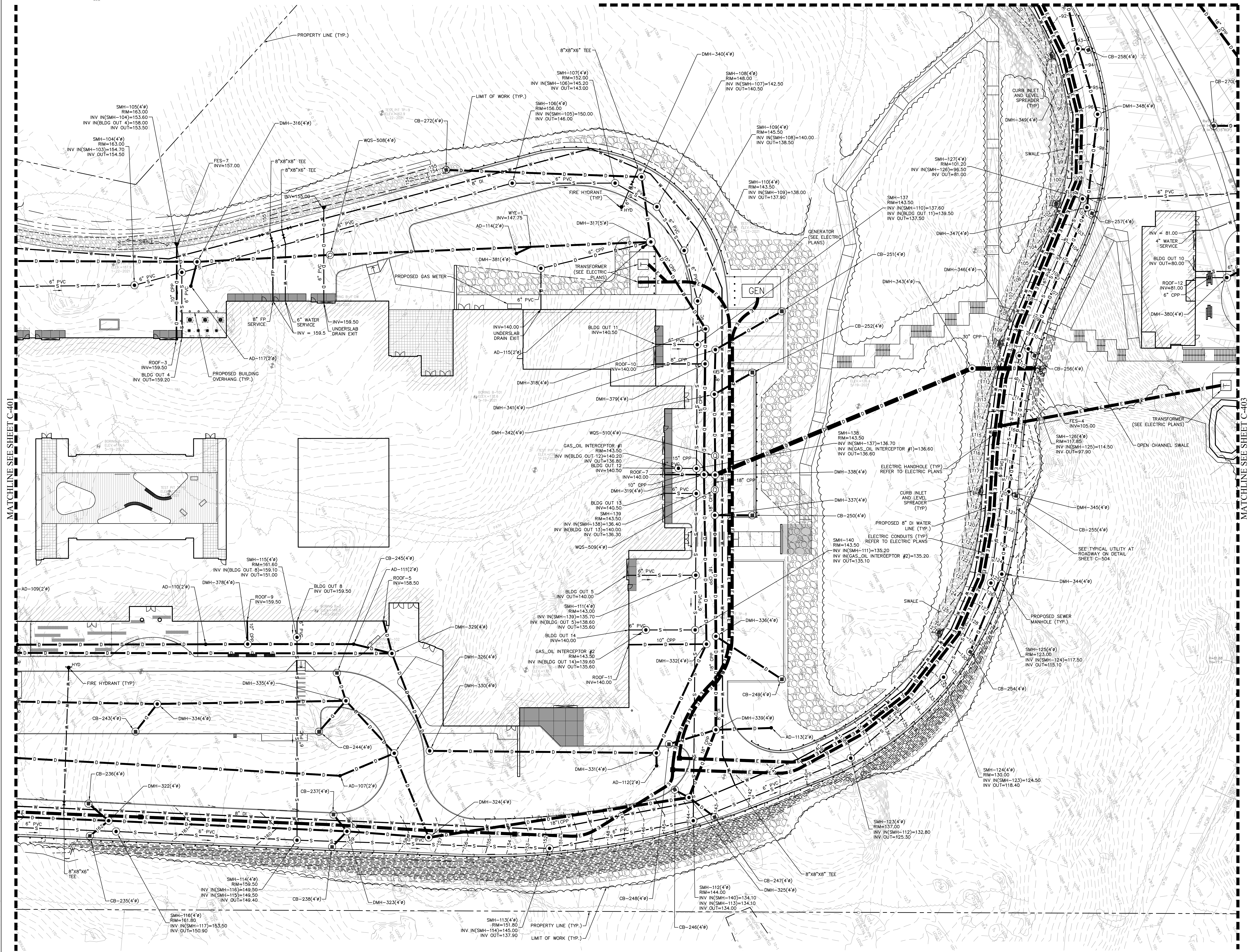
KEY MAP
S18



MATCHLINE SEE SHEET C-404

MATCHLINE SEE SHEET C-401

MATCHLINE SEE SHEET C-403



NOTES:
1. ALL PIPES TO BE 12" CPP UNLESS OTHERWISE NOTED.

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

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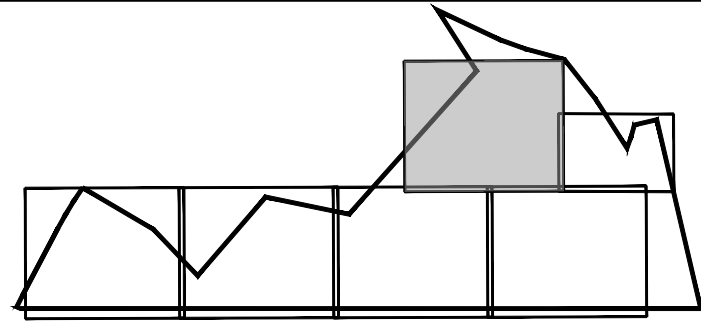
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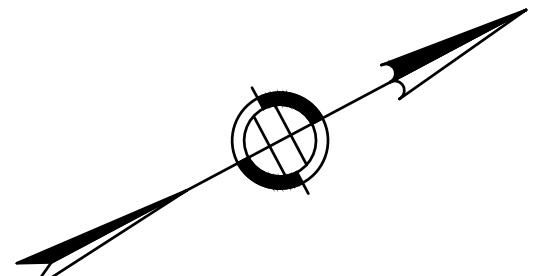
UTILITY SITE PLAN

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-402



KEY MAP
S15



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UTILITY SITE PLAN

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-404

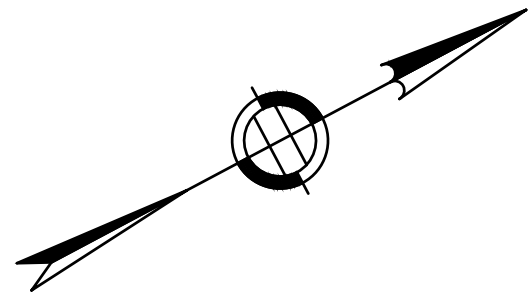
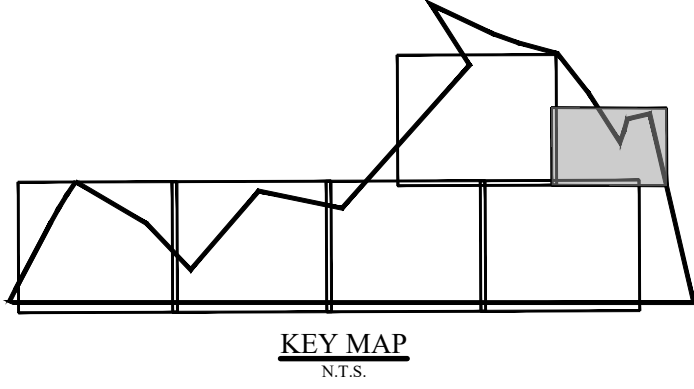


MATCHLINE SEE SHEET C-403

MATCHLINE SEE SHEET C-402

NOTES:
1. ALL PIPES TO BE 12" COP UNLESS OTHERWISE NOTED.

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

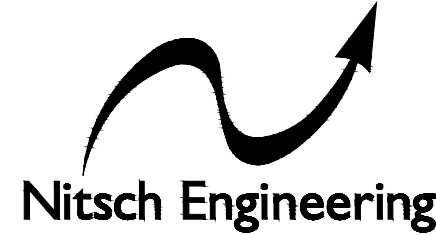


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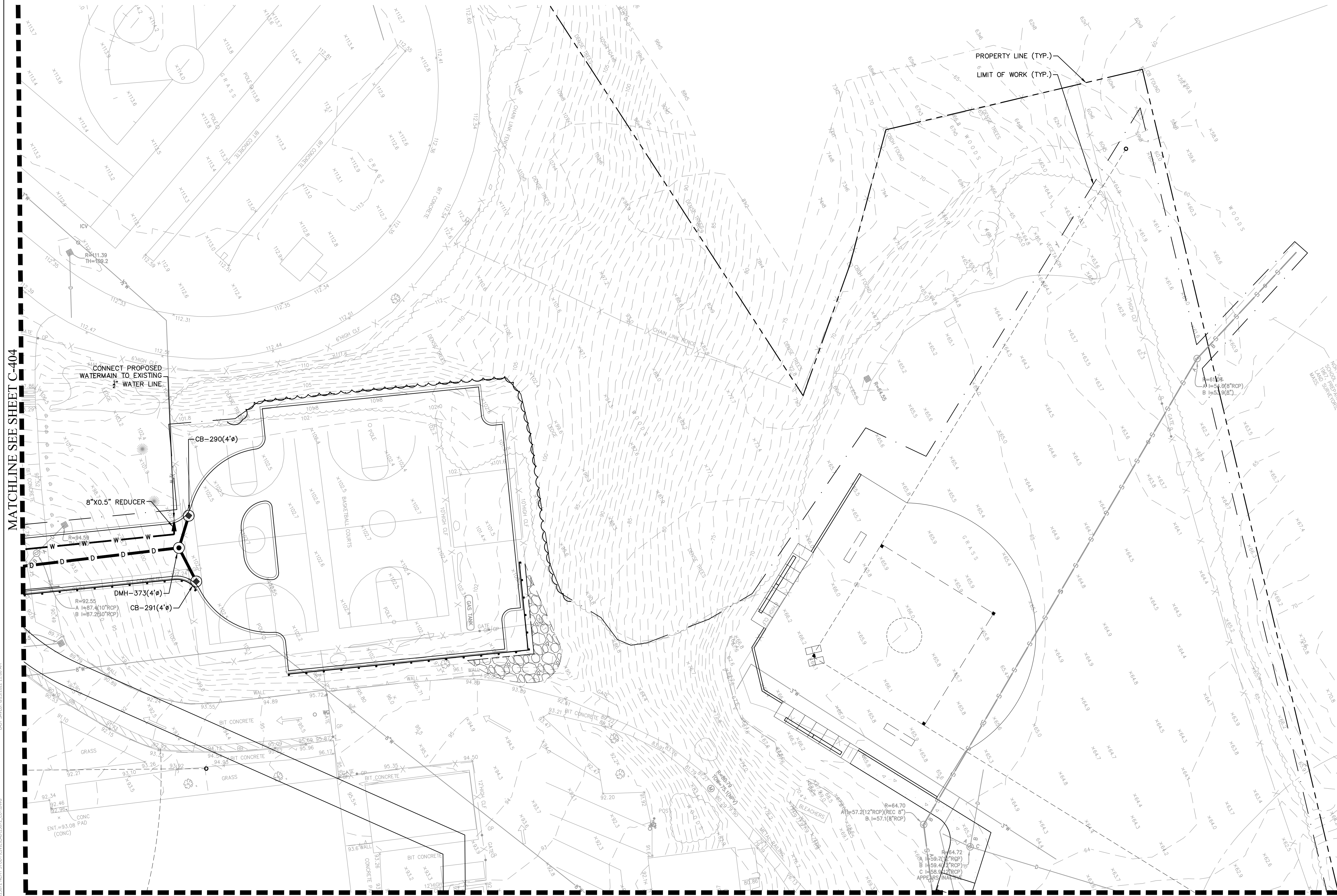
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UTILITY SITE PLAN

Scale: AS NOTED
Job No.: 13872
Drawn By: WL
Date: August 4, 2022

C-405



NOTES:
1. ALL PIPES TO BE 12\"/>

SCALE:
1\"/>

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
AD-101		159.00 (DMH-311)	163.00
AD-102		158.20 (DMH-313)	162.50
AD-103		158.45 (AD-104)	162.45
AD-104	157.80 (AD-103)	157.70 (DMH-321)	162.40
AD-105		157.50 (DMH-321)	163.00
AD-106		158.00 (AD-107)	164.00
AD-107	149.10 (AD-106)	149.00 (DMH-326)	155.00
AD-108		158.65 (DMH-328)	161.15
AD-109		158.00 (AD-110)	161.15
AD-110	156.80 (AD-109)	156.80 (DMH-378)	161.50
AD-111	155.85 (DMH-378)	155.80 (DMH-329)	161.50
AD-112		136.65 (DMH-331)	140.00
AD-113		138.00 (DMH-339)	142.00
AD-114		148.00 (WYE-1)	151.00
AD-115		145.00 (DMH-317)	149.00
AD-116		158.50 (DMH-315)	162.50
AD-117		158.50 (DMH-316)	162.50
AD-118	80.40 (CO-1)	80.40 (AD-119)	85.00
AD-119	79.00 (AD-118)	78.90 (DMH-354)	83.00

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
AD-120		77.40 (DMH-367)	80.00
AD-121		77.00 (TEE)	82.00
CB-201		130.80 (DMH-301)	134.80
CB-202		130.80 (DMH-301)	134.80
CB-203		127.75 (WQS-501)	131.00
CB-204		127.60 (WQS-501)	131.00
CB-205		128.50 (WQS-502)	135.50
CB-206		128.50 (WQS-502)	135.50
CB-207		131.70 (WQS-503)	138.20
CB-208		131.70 (WQS-503)	138.30
CB-209		146.00 (DMH-302)	150.00
CB-210		146.00 (DMH-302)	150.00
CB-211		152.00 (DMH-303)	156.50
CB-212		152.00 (DMH-304)	156.00
CB-213		151.30 (DMH-304)	155.50
CB-214		151.30 (DMH-303)	155.50
CB-215		159.10 (DMH-305)	163.10
CB-216		159.70 (DMH-305)	163.70
CB-217		156.30 (DMH-309)	160.30

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB-218		151.20 (DMH-309)	154.80
CB-219		151.50 (DMH-309)	155.50
CB-220		153.20 (DMH-310)	157.20
CB-221		154.50 (DMH-310)	158.50
CB-222		153.10 (DMH-306)	157.10
CB-223		153.10 (DMH-306)	157.10
CB-224		154.80 (DMH-306)	158.80
CB-225		154.80 (DMH-308)	158.80
CB-226		158.50 (DMH-307)	162.50
CB-227		158.50 (DMH-307)	162.50
CB-228		156.70 (DMH-308)	160.70
CB-229		154.80 (DMH-308)	160.70
CB-230		160.00 (DMH-314)	164.00
CB-231		158.70 (DMH-311)	163.00
CB-232		158.00 (DMH-312)	162.00
CB-233		158.20 (DMH-312)	162.40
CB-234		157.50 (DMH-313)	161.50
CB-235		150.90 (DMH-322)	162.80
CB-236		150.90 (DMH-322)	162.80

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB-237		145.80 (DMH-323)	159.30
CB-238		145.80 (DMH-323)	159.30
CB-239		157.10 (DMH-320)	165.50
CB-240		157.00 (DMH-320)	165.00
CB-241		153.90 (DMH-333)	161.20
CB-242		153.70 (DMH-333)	162.50
CB-243		150.50 (DMH-334)	161.20
CB-244		147.90 (DMH-335)	162.30
CB-245		147.70 (DMH-335)	162.90
CB-246		139.40 (DMH-325)	144.10
CB-247		139.30 (DMH-325)	143.00
CB-248		137.70 (DMH-339)	144.10
CB-249		137.20 (DMH-336)	142.20
CB-250		136.00 (DMH-337)	142.50
CB-251		136.60 (DMH-341)	142.90
CB-252		136.00 (DMH-342)	142.70
CB-253		86.60 (WQS-512)	90.60
CB-254		125.50 (DMH-344)	129.50
CB-255		116.00 (DMH-345)	120.00

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB-256		107.10 (DMH-346)	111.10
CB-257		97.40 (DMH-347)	101.70
CB-258		89.40 (DMH-349)	93.40
CB-259		85.70 (WQS-512)	89.70
CB-260		87.70 (DMH-350)	91.70
CB-261		87.70 (DMH-350)	91.70
CB-262		86.00 (DMH-351)	90.00
CB-263		84.80 (DMH-351)	88.80
CB-264		84.50 (DMH-353)	88.50
CB-265		84.10 (DMH-352)	88.10
CB-266		80.50 (DMH-352)	89.07
CB-267		82.30 (DMH-354)	86.30
CB-268		83.10 (DMH-355)	87.10
CB-269		81.30 (DMH-355)	85.30
CB-270		80.10 (DMH-356)	84.10
CB-271		78.60 (DMH-356)	82.60
CB-272		147.50 (DMH-340)	153.75
CB-273		78.60 (DMH-358)	82.60
CB-274		79.70 (DMH-358)	83.70

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB-275		78.50 (DMH-358)	82.50
CB-276		76.50 (DMH-360)	80.50
CB-277		76.50 (DMH-360)	80.50
CB-278		74.50 (DMH-360)	78.50
CB-279		74.50 (WQS-516)	78.50
CB-280		74.20 (WQS-516)	78.20
CB-281		77.00 (DMH-361)	84.00
CB-282		77.70 (DMH-364)	81.70
CB-283		79.60 (DMH-364)	83.60
CB-284		77.00 (WQS-515)	83.00
CB-285		78.30 (DMH-368)	82.30
CB-286		80.40 (DMH-368)	84.40
CB-287		80.00 (DMH-368)	84.00
CB-288		79.00 (DMH-372)	83.00
CB-289		78.20 (DMH-372)	82.20
CB-290		95.80 (DMH-373)	99.80
CB-291		95.60 (DMH-373)	99.60
CB-292		86.30 (DMH-374)	90.30
CB-293		86.50 (DMH-374)	90.50

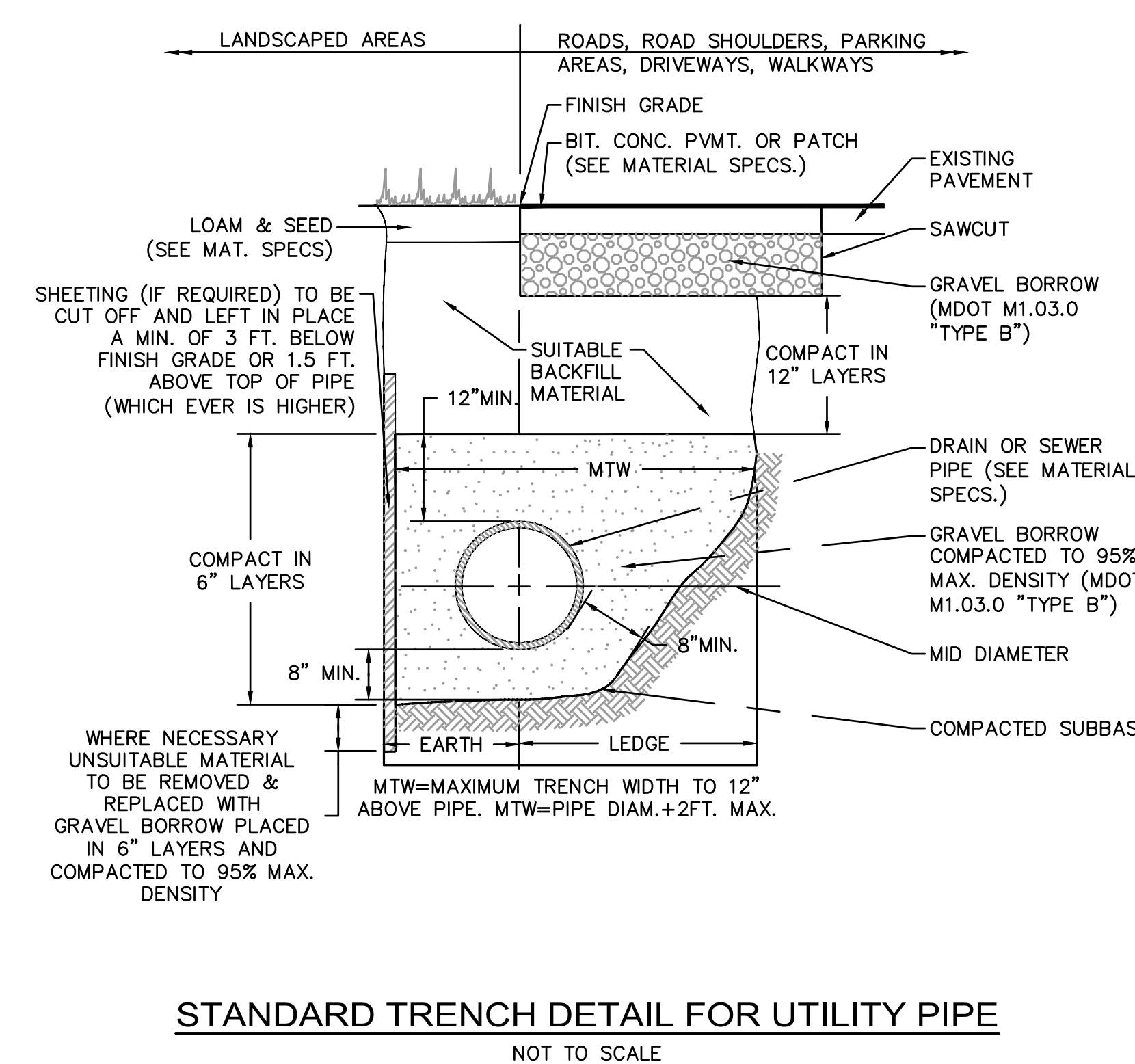
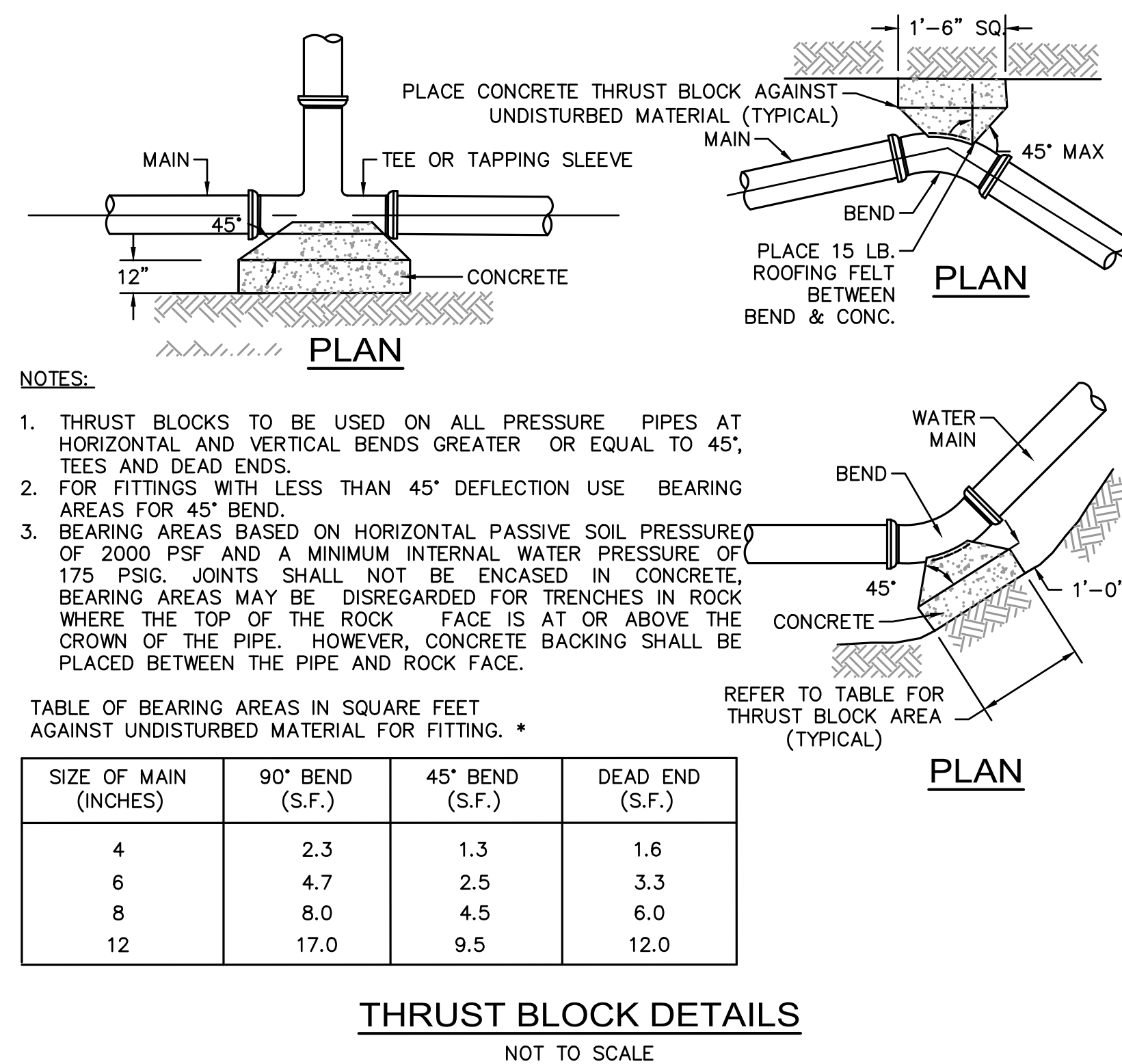
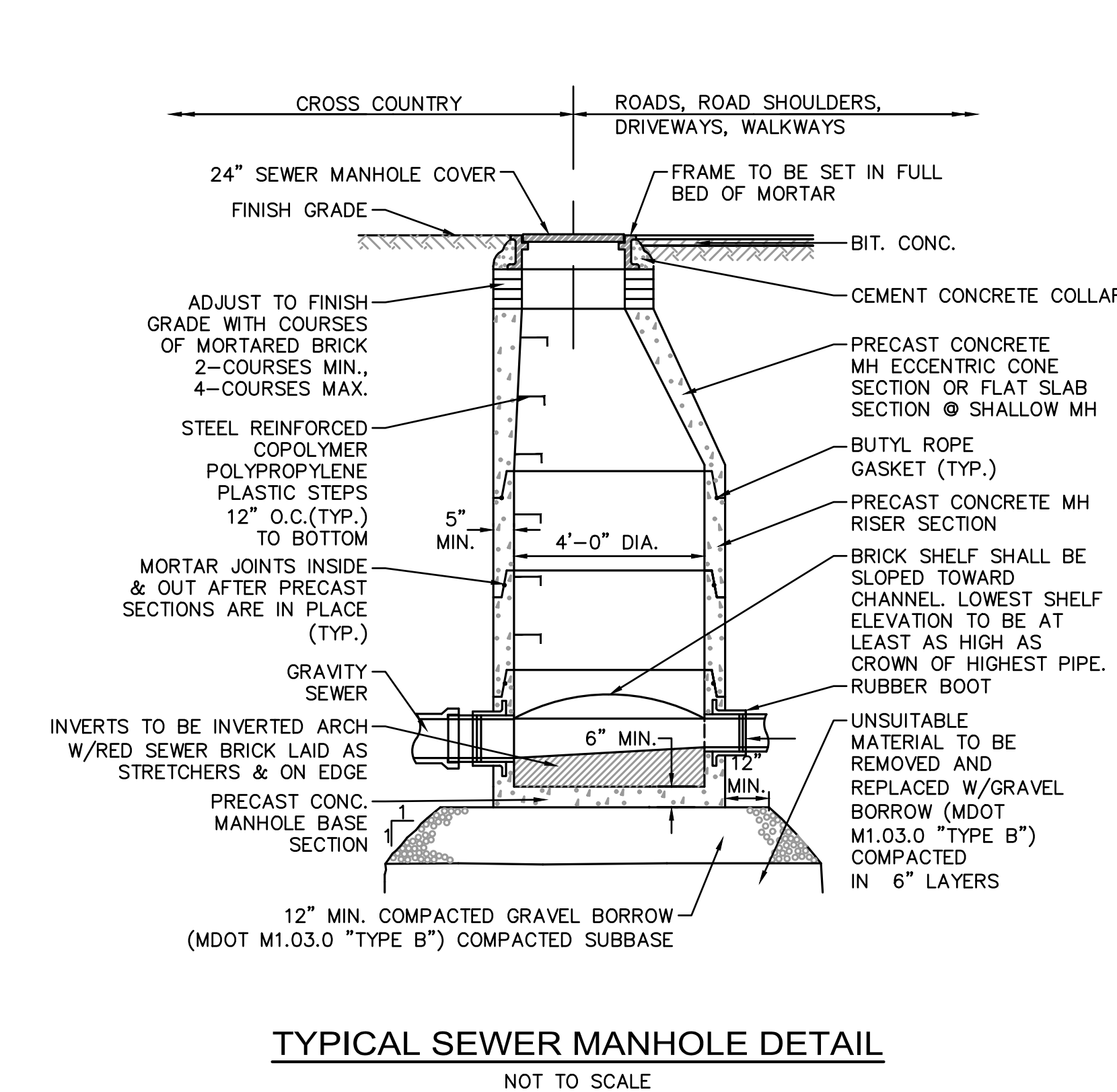
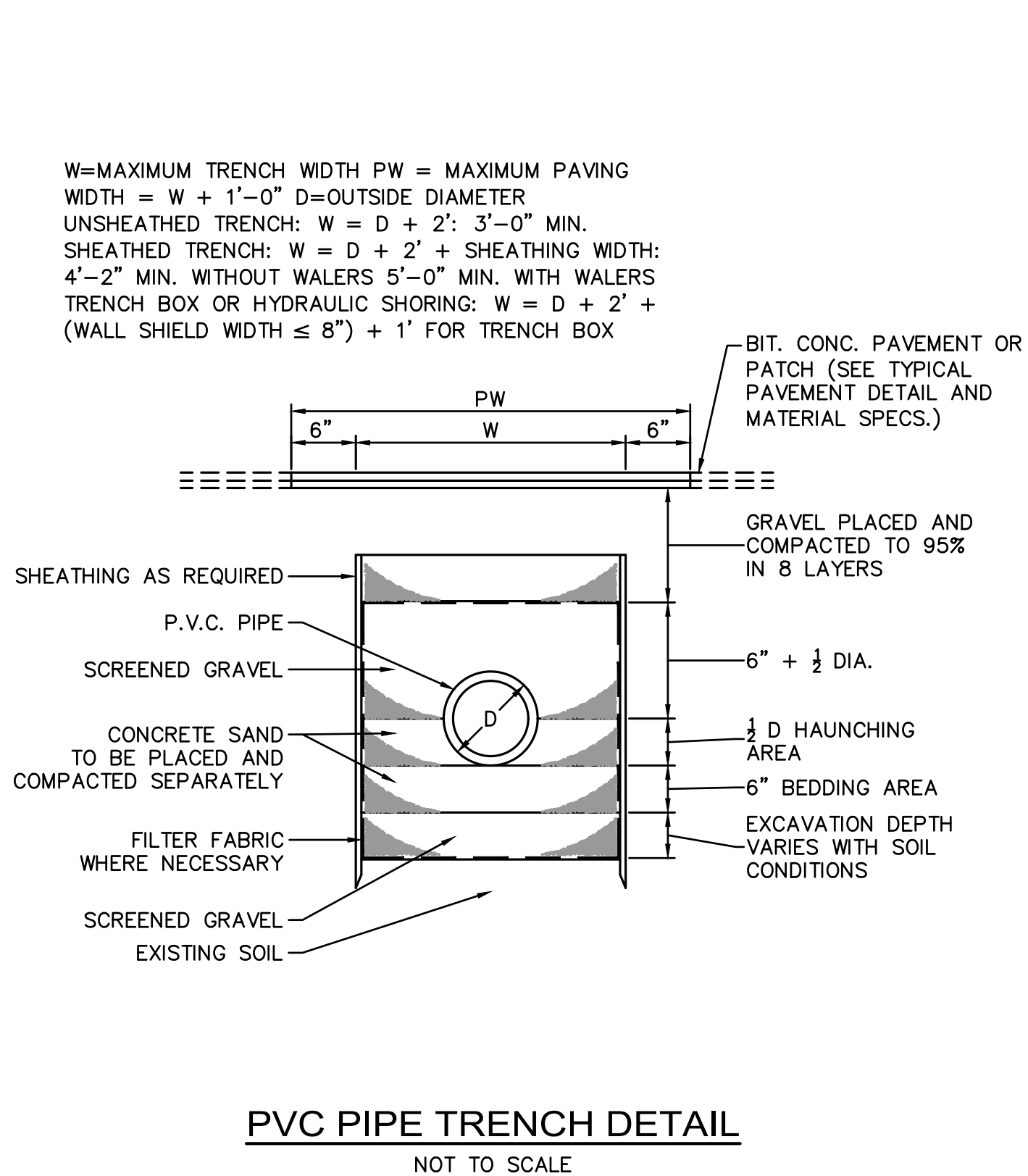
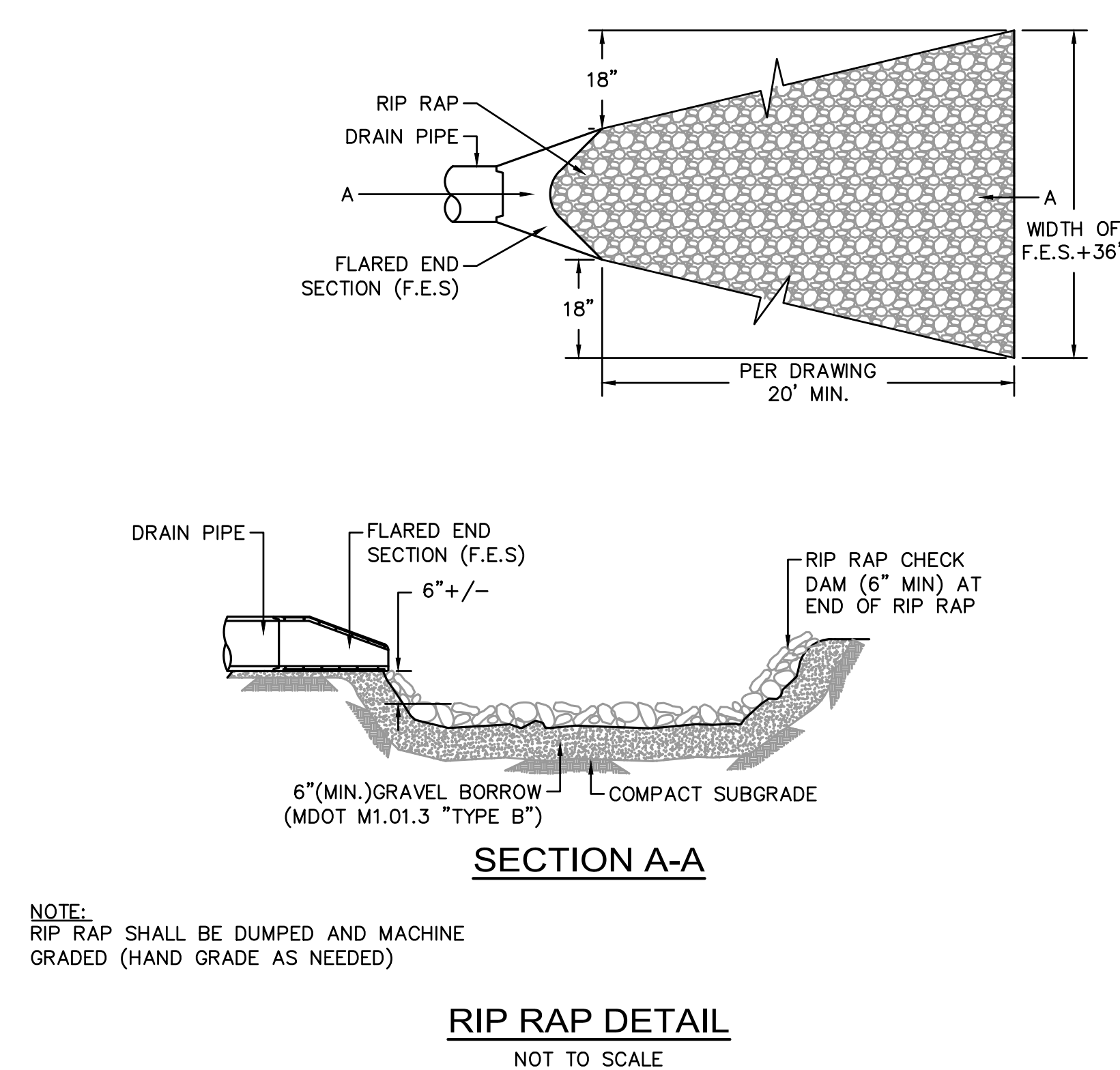
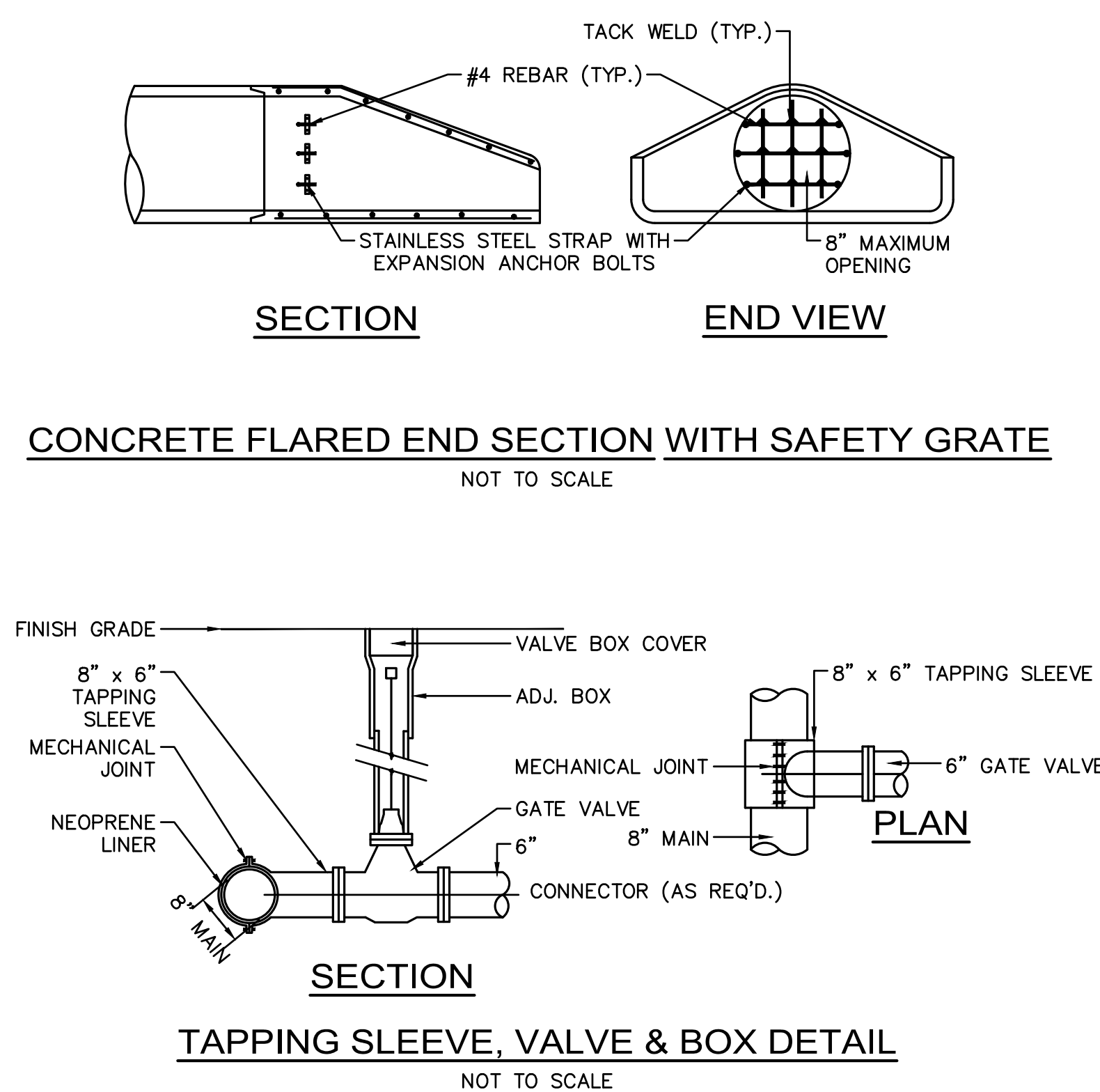
STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB-294		85.10 (DMH-375)	89.10
CB-295		84.50 (DMH-375)	88.50
CO-1	82.00 (FIELDUD-1)	82.00 (AD-118)	86.40
DMH-301	130.40 (CB-201) 130.40 (CB-202)	130.30 (WQS-501)	134.50
DMH-302	145.70 (CB-209) 145.70 (CB-210)	140.00 (WQS-503)	150.00
DMH-303	151.70 (CB-211) 153.80 (WQS-511) 151.20 (DMH-304) 151.20 (CB-214)	151.10 (WQS-504)	157.20
DMH-304	151.20 (CB-213) 151.70 (CB-212)	151.60 (DMH-303)	157.00
DMH-305	158.90 (CB-215) 158.90 (CB-216)	154.00 (WQS-505)	162.90
DMH-306	152.70 (CB-222) 152.70 (CB-223) 154.30 (CB-224)	152.60 (WQS-506)	158.00
DMH-307	158.20 (CB-227) 158.20 (CB-228)	158.10 (DMH-308)	162.50
DMH-308	154.40 (DMH-307) 154.40 (CB-225) 155.50 (CB-228) 154.40 (CB-229)	154.30 (WQS-507)	159.50
DMH-309	150.60 (CB-218) 151.00 (CB-219) 152.00 (DMH-310) 153.50 (CB-217)	150.50 (WQS-506)	157.50
DMH-310	154.00 (CB-221) 152.80 (CB-220)	152.80 (DMH-309)	158.00
DMH-311	158.50 (CB-231) 158.50 (AD-101)	158.40 (DMH-312)	162.50
DMH-312	157.90 (DMH-311) 157.90 (CB-232) 157.80 (CB-233)	157.80 (DMH-313)	161.90
DMH-313	157.60 (DMH-312) 157.30 (CB-234) 157.60 (AD-102)	157.50 (WQS-507)	161.70
DMH-314	159.75 (CB-230)	159.65 (DMH-315)	163.75
DMH-315	158.30 (DMH-314) 158.30 (AD-116)	158.10 (DMH-316)	190.00
DMH-316	158.40 (AD-117) 155.20 (DMH-315)	155.10 (WQS-508)	162.60

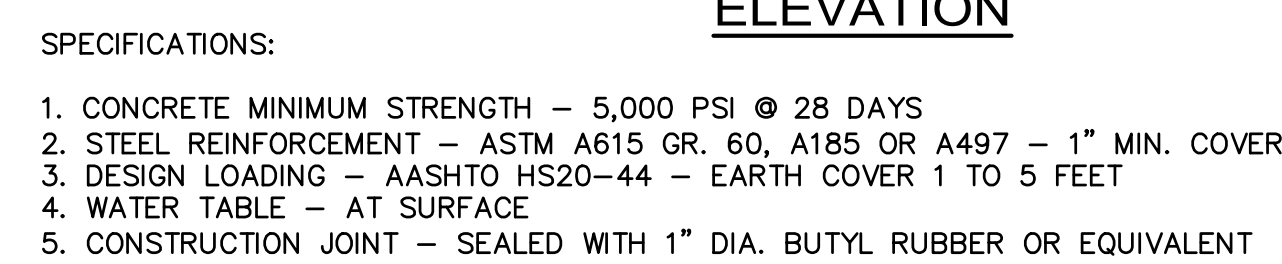
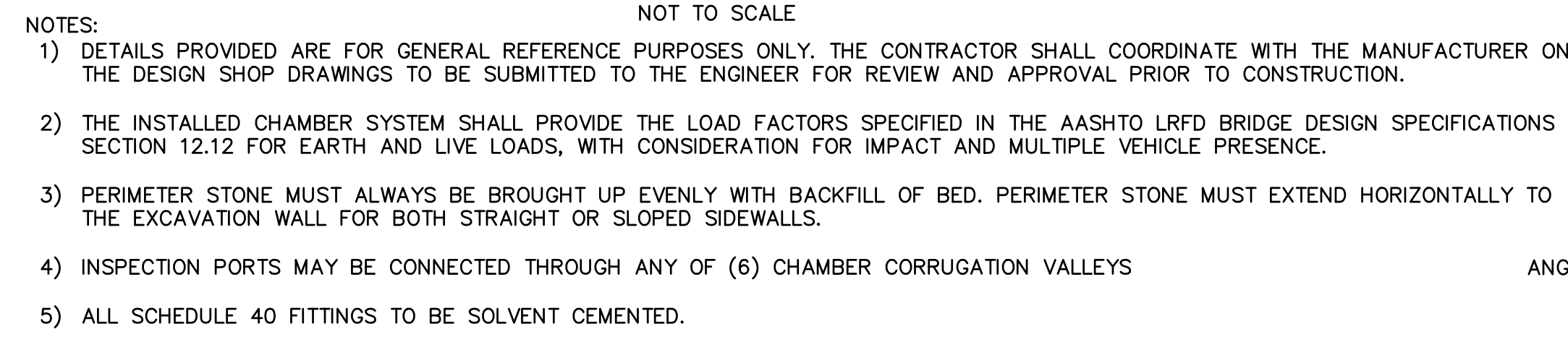
STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
DMH-317	145.10 (WYE-1) 144.80 (AD-115) 145.10 (DMH-340) 139.42 (DMH-381)	139.32 (DMH-318)	149.50
DMH-318	139.15 (DMH-317)	139.05 (DMH-379)	143.15
DMH-319	137.87 (ROOF-7) 135.20 (DMH-379) 135.20 (DMH-332)	135.10 (DMH-338)	143.00
DMH-320	156.80 (DMH-321) 156.80 (CB-239) 156.80 (CB-240)	156.70 (DMH-322)	165.10
DMH-321	157.20 (AD-104) 157.20 (AD-105)	157.10 (DMH-320)	165.00
DMH-322	150.70 (DMH-320) 150.70 (CB-235) 150.70 (CB-236)	150.60 (DMH-323)	162.00
DMH-323	145.60 (DMH-322) 145.60 (CB-237) 145.60 (CB-238)	145.50 (DMH-324)	158.80
DMH-324	141.50 (DMH-323) 141.50 (DMH-326)	141.25 (DMH-325)	157.40
DMH-325	139.20 (DMH-324) 139.20 (CB-246) 139.20 (CB-247)	139.00 (DMH-339)	142.00
DMH-326	147.00 (AD-107) 147.00 (DMH-335)	146.50 (DMH-324)	162.30
DMH-327	158.30 (ROOF-4)	158.20 (DMH-328)	163.00
DMH-328	157.85 (DMH-327) 158.00 (ROOF-8) 158.00 (AD-108)	157.75 (DMH-329)	163.20
DMH-329	154.00 (DMH-328) 158.00 (ROOF-5) 155.60 (AD-111)	153.90 (DMH-330)	163.30
DMH-330	153.50 (DMH-329)	144.00 (DMH-331)	161.50
DMH-331	138.00 (DMH-330) 136.60 (AD-112)	136.50 (DMH-332)	142.00
DMH-332	136.00 (DMH-331) 136.00 (ROOF-11)	135.90 (DMH-319)	143.60
DMH-333	153.60 (CB-241) 153.60 (CB-242)	153.50 (DMH-334)	162.80
DMH-334	150.10 (DMH-333) 150.10 (CB-243)	150.00 (DMH-335)	162.80
DMH-335	147.60 (DMH-334) 147.60 (CB-244) 147.60 (CB-245)	147.50 (DMH-326)	162.50

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
DMH-336	136.60 (CB-249) 136.60 (DMH-339)	136.50 (DMH-337)	143.50
DMH-337	135.70 (DMH-336) 135.70 (CB-250)	135.60 (WQS-509)	143.00
DMH-338	135.00 (WQS-509) 135.00 (DMH-319) 135.00 (WQS-510)	120.00 (DMH-343)	143.00
DMH-339	137.50 (CB-248) 137.50 (AD-113) 137.50 (DMH-325)	137.40 (DMH-336)	142.00
DMH-340	146.50 (CB-272)	146.40 (DMH-317)	150.50
DMH-341	136.00 (CB-251)	135.90 (DMH-342)	143.20
DMH-342	135.60 (DMH-341) 135.60 (CB-252)	135.50 (WQS-510)	143.00
DMH-343	109.00 (DMH-338)	105.90 (FES-4)	113.50
DMH-344	120.80 (CB-254)	120.80 (DMH-345)	124.80
DMH-345	115.95 (DMH-344) 115.95 (CB-255)	115.85 (DMH-346)	119.95
DMH-346	107.00 (DMH-345) 107.00 (CB-256)	106.90 (DMH-347)	111.00
DMH-347	97.50 (DMH-346) 97.35 (CB-257)	97.40 (DMH-348)	101.50
DMH-348	92.25 (DMH-347)	92.15 (DMH-349)	96.25
DMH-349	89.30 (DMH-348) 89.30 (CB-258)	89.20 (DMH-353)	93.30
DMH-350	87.30 (CB-260) 87.30 (CB-261)	87.20 (DMH-351)	91.50
DMH-351	84.40 (DMH-350) 85.90 (CB-262) 84.50 (CB-263)	84.40 (DMH-352)	90.00
DMH-352	83.80 (DMH-351) 80.25 (CB-266) 83.70 (CB-265)	80.15 (DMH-353)	89.80
DMH-353	79.90 (DMH-352) 84.35 (CB-264) 84.40 (DMH-349)	79.40 (DMH-354)	88.40
DMH-354	78.75 (DMH-353) 82.00 (CB-267) 78.50 (AD-119)	78.00 (DMH-355)	86.80

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
DMH-355	77.70 (DMH-354) 82.80 (CB-268) 81.00 (CB-269)	77.60 (DMH-356)	86.00
DMH-356	77.05 (DMH-355) 79.00 (CB-270) 78.40 (CB-271)	76.95 (WQS-513)	83.00
DMH-357	78.00 (DMH-380)	77.90 (DMH-371)	82.50
DMH-358	78.00 (CB-273) 79.00 (CB-274) 78.00 (CB-275)	76.40 (WQS-514)	83.00
DMH-359	73.00 (WQS-514) 73.00 (WQS-516) 73.00 (WQS-515)	72.90 (BASIN2-IN-1)	79.00
DMH-360	76.00 (CB-276) 76.00 (CB-277) 74.25 (CB-278)	74.15 (WQS-514)	79.00
DMH-361	72.00 (CB-281)		83.40
DMH-362	66.60 (DMH-365) 66.50 (DMH-362)	66.50 (DMH-363)	83.00
DMH-363	77.00 (CB-282) 77.00 (CB-283)	76.90 (WQS-515)	83.50
DMH-364	71.00 (OCS-405)	68.50 (DMH-362)	84.00
DMH-366	76.20 (DMH-367)		82.50
DMH-367	76.00 (DMH-366) 77.15 (DMH-372) 77.10 (AD-120)	76.85 (TEE)	82.20
DMH-368	78.50 (CB-287) 77.80 (CB-285) 80.20 (CB-286)	77.70 (WQS-517)	84.45
DMH-369	77.50 (WQS-517) 76.45 (WQS-513)	75.95 (DMH-371)	85.00
DMH-370	82.50 (UD-1) 76.05 (TEE)	75.95 (DMH-371)	86.50
DMH-371	75.65 (DMH-369) 77.50 (DMH-357) 77.00 (DMH-370)	75.55 (BASIN1-IN-1)	86.70
DMH-372	78.85 (CB-288) 78.00 (CB-289) 78.20 (DMH-375)	77.25 (DMH-367)	82.80
DMH-373	95.50 (CB-290) 95.50 (CB-291)	95.50 (DMH-374)	99.70

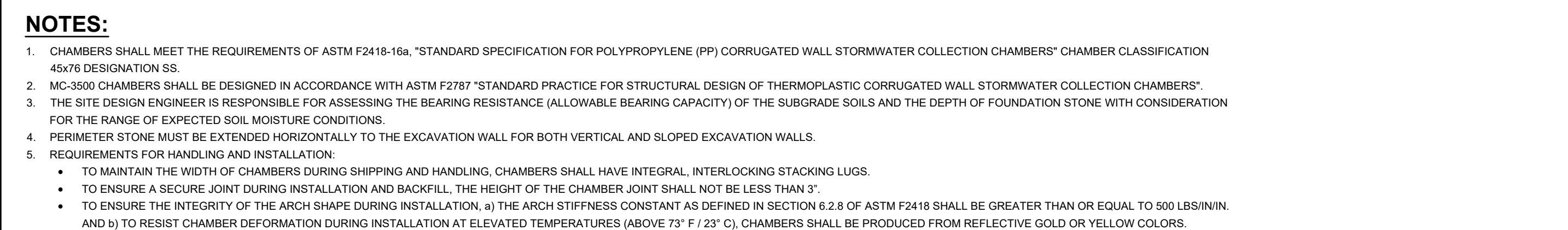
STORM DRAINAGE - INVERT TABLE	
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PLEASE NOTE:

- 1. THE LISTED ASHFOOT DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (ASHFOOT M-3) STONE".
- 2. COVERSAGES WITHIN THE STONE MUST BE PLACED AND COMPACTED IN 2" (50 mm) MAXIMUM LAYER THICKNESSES WITH A VIBRATORY COMPACTOR.
- 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLEET SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL, LOAD DESIGNERS, CONTACT STORMTECH FOR GUIDANCE.
- 4. ONCE LAYER "C" IS PLACED, ANY SUBSOLAR CAN BE PLACED IN LAYER "D" UP TO THE FINISHED GRADE. MOST PLASTIC SUBBASE SOLKS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER "C" OR "D" AT THE SITE DESIGN ENGINEER'S DISCRETION.

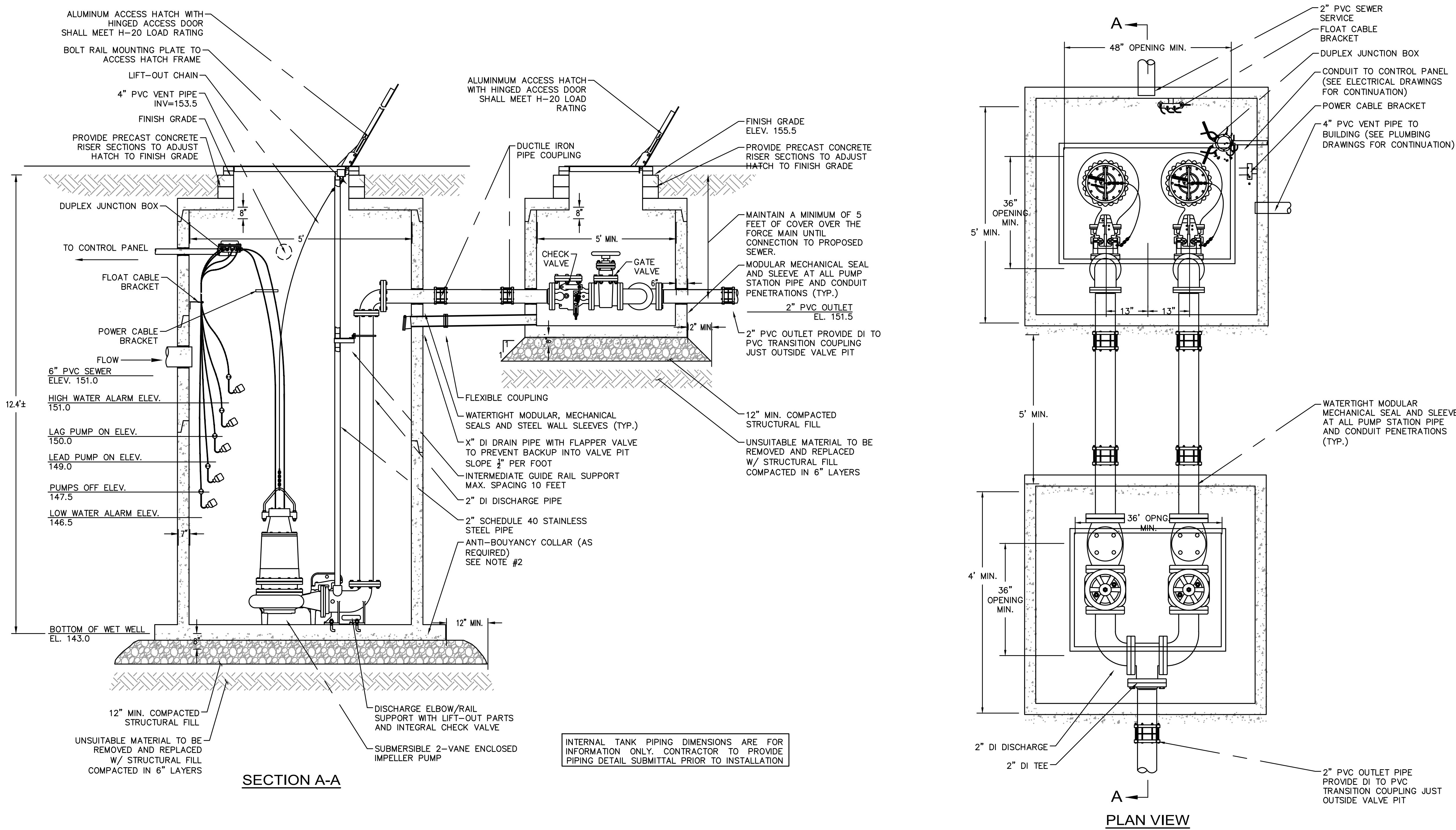


1	MC-3500 CROSS SECTION DETAIL
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NEED DETENTION BASIN DETAIL





19. ALL HARDWARE IN WET WELL TO BE STAINLESS STEEL WITH LIFTING CABLE.

C-504