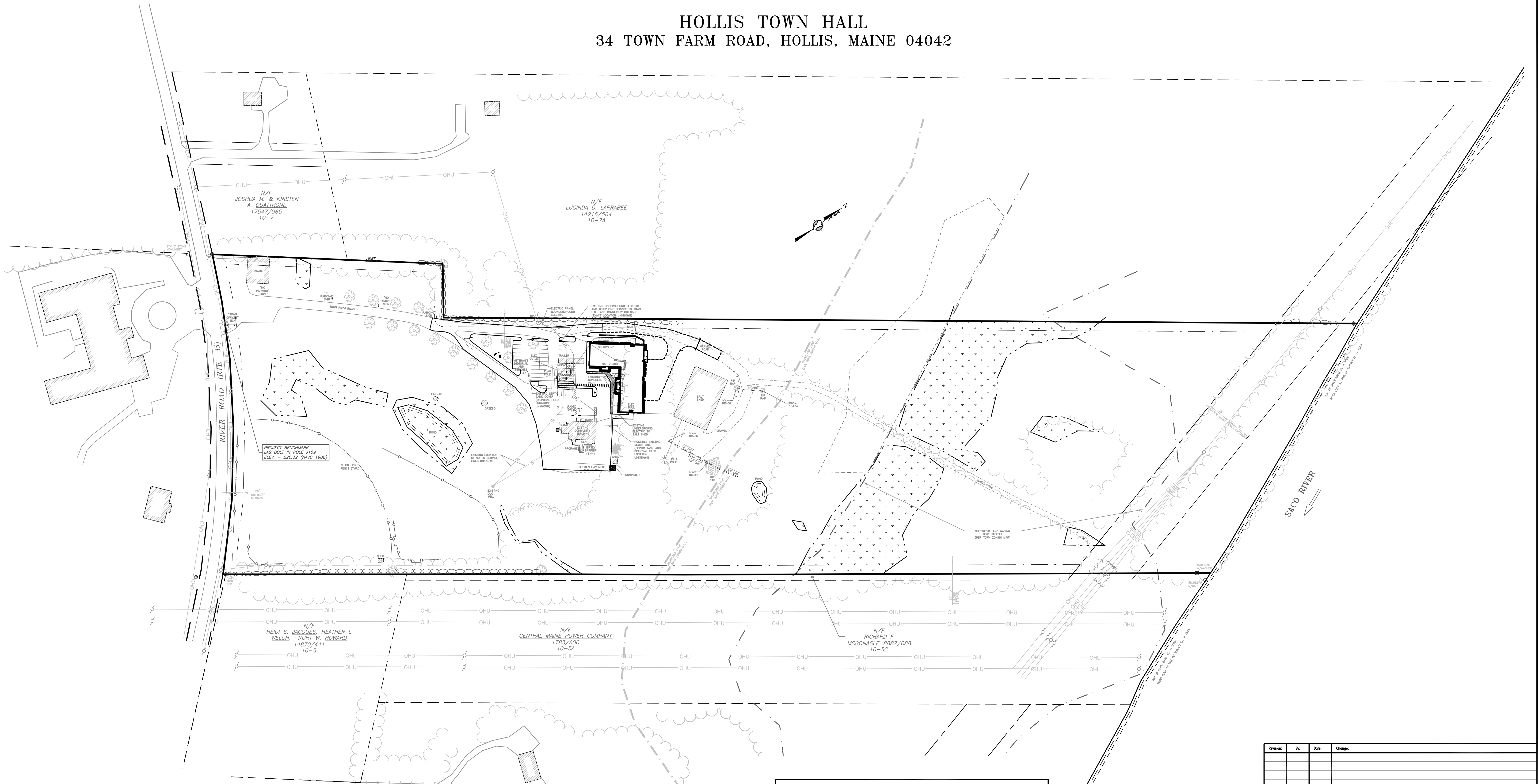


HOLLIS TOWN HALL  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042



ABUTTERS		
ASSESSOR'S MAP	PARCEL NUMBER	OWNER'S NAME
10	7	JOSHUA M. & KRISTEN A. QUATRONE 573 RIVER ROAD, HOLLIS, ME 04042 BOOK 17547, PAGE 065
10	7A	LUCINDA D. LARRABEE 567 RIVER ROAD, HOLLIS, ME 04042 BOOK 14216, PAGE 564
10	5	HEIDI S. JACQUES, HEATHER L. WELCH, KURT W. HOWARD 517 RIVER ROAD, HOLLIS, ME 04042 BOOK 14870, PAGE 441
10	5A	CENTRAL MAINE POWER COMPANY 83 EDISON DRIVE, AUGUSTA, ME 04336 BOOK 1783, PAGE 600
10	5C	RICHARD F. MCCONAGLE 513 RIVER ROAD, HOLLIS, ME 04042 BOOK 8887, PAGE 088

INDEX	
1.	COVER/INDEX/VICINITY MAP
2.	BOUNDARY SURVEY w/LIDAR TOPOGRAPHY
3.	EXISTING CONDITIONS PLAN
4.	DEMOLITION PLAN
5.	OPERATIONS AND CONSTRUCTION PLAN - PHASE I
6.	OPERATIONS AND CONSTRUCTION PLAN - PHASE II
7.	OPERATIONS AND CONSTRUCTION PLAN - PHASE III
8.	SITE & LAYOUT PLAN
9.	UTILITY PLAN
10.	GRADING & DRAINAGE PLAN
11.	EROSION & SEDIMENTATION CONTROL PLAN
12.	EROSION & SEDIMENTATION CONTROL NOTES AND DETAILS
13.	CONSTRUCTION DETAILS - SHEET 1
14.	CONSTRUCTION DETAILS - SHEET 2
15.	CONSTRUCTION DETAILS - SHEET 3
16.	CONSTRUCTION DETAILS - SHEET 4

Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

PROJECT NUMBER: 42252 ACAD FILE: 42252-COVER.DWG SCALE: 1" = 100' DATE: JUNE 20, 2023

DRAWING STATUS:  
 SUBDIVISION PLAN  
 MDEP REVIEW  
 BID SET  
 TOWN REVIEW  
 CONSTRUCTION  
**8-2-23**

Drawing Name:  
**COVER/INDEX/VICINITY MAP**

Project Name:  
**HOLLIS TOWN HALL**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

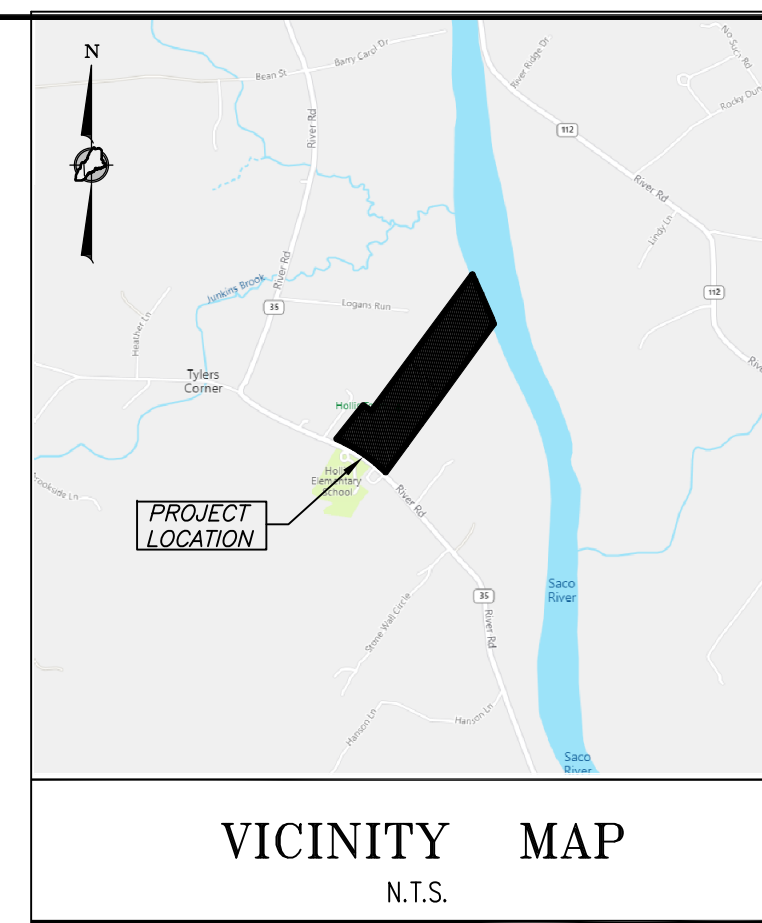
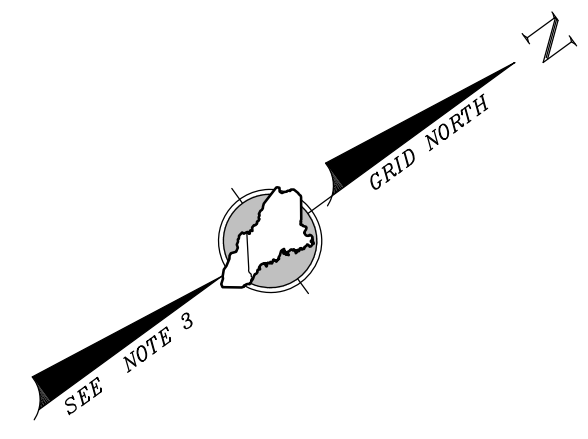
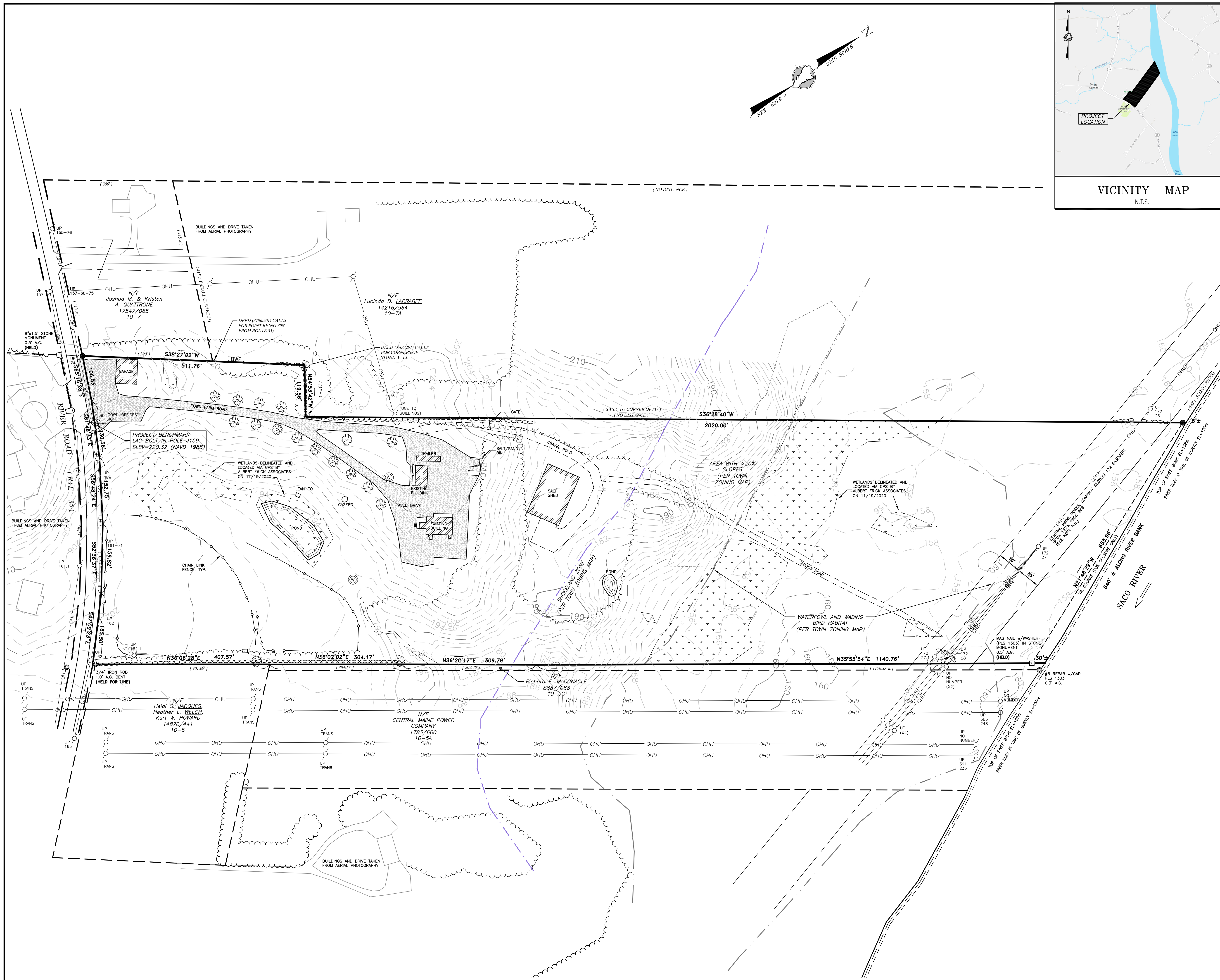
Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

Professional Engineer Seal: WILLIAM A. GERRISH, No. 8830, State of Maine, Professional Engineer, License No. 8830, 8-2-23

Company Logo: **NCS** (Northeast Civil Solutions) SURVEYING • ENGINEERING • LAND PLANNING INCORPORATED  
381 PAYNE ROAD, SCARBOROUGH, MAINE 04074  
tel: 207.883.1000 e-mail / website: info@northeastcivilsolutions.com www.northeastcivilsolutions.com

SHEET 1 OF 16

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### LEGEND

- #5 REBAR WITH CAP (2080) SET ON JANUARY 19 2021
- FOUND IRON (SIZE & TYPE AS NOTED)
- FOUND MONUMENT (SIZE & TYPE AS NOTED)
- UTILITY POLE (NUMBER AS NOTED)
- GUY WIRE ANCHOR
- FOUND DECIDUOUS TREE (SIZE & TYPE AS NOTED)
- TREE LINE (APPROXIMATE)
- STONEWALL
- BOUNDARY LINE
- EASEMENT LINE
- EDGE OF WATER
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- RIGHT-OF-WAY LINE
- ABUTTER LINE
- OVERHEAD UTILITY
- NOW OR FORMERLY OWNED BY
- DEED BOOK AND PAGE
- TAX MAP-LOT
- PARENTHESIS DENOTE RECORD DATA FROM DEEDS
- BRACKETS DENOTE RECORD DATA FROM PLANS
- TIE COURSE

- ### NOTES
- RECORD OWNER OF THE PARCEL SURVEYED IS THE TOWN OF HOLLIS AS DESCRIBED IN A DEED FROM ATWOOD SMITH, DATED APRIL 1, 1851 AND RECORDED IN BOOK 216, PAGE 538 IN THE YORK COUNTY REGISTRY OF DEEDS.
  - TOTAL LOT AREA IS: 32± Ac.
  - THE PARCEL SURVEYED IS IDENTIFIED ON THE TOWN OF HOLLIS TAX ASSESSOR'S MAP 10, PARCEL 6.
  - THE BEARINGS SHOWN ON THIS PLAN ARE BASED ON MAINE COORDINATE SYSTEM OF 1983, WEST ZONE, GRID NORTH.
  - PLAN REFERENCES:
    - "STANDARD BOUNDARY SURVEY PLAN PREPARED FOR THE HEIRS OF ROBERT P. & A. CLINTON EDGECOMB" BY POST ROAD SURVEYING, DATED MAY 30, 2001, RECORDED IN PLAN BOOK 263, PAGE 5.
    - "BOUNDARY SURVEY MAP FOR RICHARD F. MCGONAGLE" BY MAINE BOUNDARY CONSULTANTS, DATED MARCH 8, 2012.
    - "SITE PLAN PREPARED FOR TOWN OF HOLLIS" BY ALBERT FRICK ASSOCIATES, INC., DATED NOVEMBER 19, 2020.
  - THE WIDTH OF RIVER ROAD IS ASSUMED 3 RODS (49.5'). NO DATA AVAILABLE. THE LAYOUT OF THE RIGHT-OF-WAY LIMITS IS BASED ON 1.5 RODS EACH SIDE OF CENTER OF TRAVELLED WAY.
  - REFERENCE IS MADE TO THE FOLLOWING EASEMENTS OF RECORD:
    - EDITH R. FENNEL TO CENTRAL MAINE POWER COMPANY BOOK 1428, PAGE 268
  - AS OF THE ORIGINAL DATE OF THIS PLAN, THE PARCEL SURVEYED IS LOCATED IN THE RR3 ZONE/DISTRICT. PORTIONS OF BULK & SPACE REQUIREMENTS ARE AS FOLLOWS:
    - MINIMUM LOT AREA = N/A
    - MINIMUM FRONTAGE = 80'
    - SETBACKS:
      - FRONT = 25'
      - SIDE = 20'
      - REAR = 20'
  - OTHER MUNICIPAL AND STATE OVERLAY ZONES MAY EXIST AND APPLY. BEFORE PROCEEDING ON ANY PROJECT WE RECOMMEND VERIFYING CURRENT ZONE AND ALL APPLICABLE SETBACKS AND RESTRICTIONS WITH THE APPROPRIATE AGENCIES.
  - ELEVATIONS BASED ON NAVD 1988 DATUM OBTAINED BY GPS-RTK. SEE PLAN FOR TBM INFORMATION. CONTOURS SHOWN DERIVED FROM LIDAR TAKEN FROM NATIONAL ELEVATION DATA SET (USGS).
  - THE UTILITIES SHOWN ON THIS PLAN WERE FROM FIELD OBSERVATION ONLY. THERE MAY BE OTHER UTILITIES EXISTING THAT ARE NOT SHOWN. CONTACT DIG-SAFE (888)DIG-SAFE PRIOR TO ANY EXCAVATION WORK.
  - WETLANDS WERE DELINEATED AND GPS LOCATED BY ALBERT FRICK ASSOCIATES, INC. ON NOVEMBER 19, 2020.
  - RIPARIAN RIGHTS BETWEEN HIGH WATER AND LOW WATER WERE NOT DETERMINED DURING THIS SURVEY.

Revision	By	Date	Change
1	JAP	8/16/2021	UPDATE AREA IN NOTE 1

PROJECT: 42252	DRAWING NAME: 42252.dwg
ISSUED: JANUARY 19, 2021	SCALE: 1"=100' FB # 467
FIELD BY: JAP / CJB	FIELD DATE: 12/21/2020
	CHECKED BY: DMM / TFM

Drawing Name and Location:  
**BOUNDARY SURVEY w/LIDAR TOPOGRAPHY**  
 34 TOWN FARM ROAD, HOLLIS, MAINE

Drawn:  
**TOWN OF HOLLIS**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042

Prepared For:  
**TOWN OF HOLLIS**

SURVEYING • ENGINEERING • LAND PLANNING

**Northeast Civil Solutions**  
INCORPORATED

381 PAYNE ROAD, SCARBOROUGH, MAINE 04074

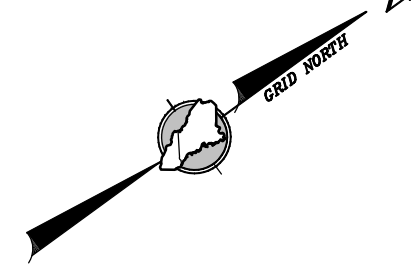
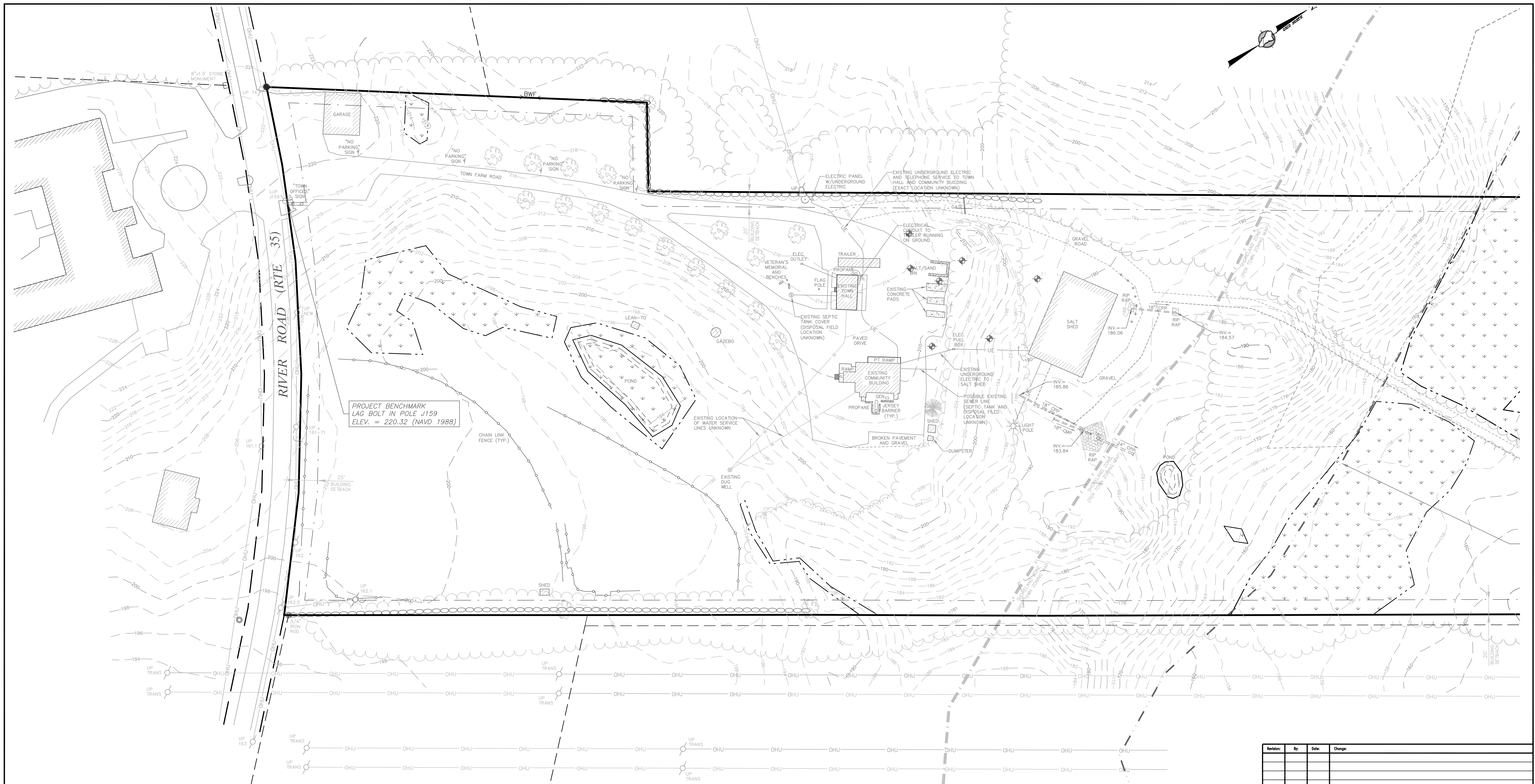
tel 207.883.1000 fax 207.883.1001 e-mail / website info@northeastcivilsolutions.com www.northeastcivilsolutions.com

### STAMP AND SIGNATURE

TROY F. McDONALD  
MAINE PROFESSIONAL LAND SURVEYOR No. 2080

6/16/2021  
DATE

E:\Land Projects\42252\42252\_Hollis\_Town\_Hollis.dwg 4/25/2021



**LEGEND**

- BOUNDARY LINE
- RIGHT-OF-WAY LINE
- ABUTTER
- BUILDING SETBACK
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- WETLAND
- EXISTING TREE LINE
- EXISTING TREE
- STONE WALL
- EXISTING WATER LINE
- EXISTING WELL

**LEGEND**

- EXISTING SEWER LINE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD UTILITIES
- EXISTING UNDERGROUND UTILITIES
- SHORELAND ZONE
- POND
- EXISTING CONTOUR
- TEST BORING (SW COLE)

**NOTES**

1. EXISTING TOPOGRAPHY SHOWN IS BASED ON AN INSTRUMENT SURVEY PERFORMED BY NORTHEAST CIVIL SOLUTIONS, MAY 2023. TOPOGRAPHY OUTSIDE OF PROJECT LIMITS WAS OBTAINED BY A 1-METER RESOLUTION DIGITAL ELEVATION MODEL (DEM), PUBLISHED BY THE U.S. GEOLOGICAL SURVEY. ELEVATIONS ARE BASED ON NAVD 1988 DATUM. SEE PLAN FOR TB# DESCRIPTION.
2. BOUNDARY LINES SHOWN ARE BASED ON A BOUNDARY SURVEY PERFORMED BY NORTHEAST CIVIL SOLUTIONS, DATED JANUARY 19, 2021.
3. UTILITIES SHOWN ON THIS PLAN WERE FROM FIELD OBSERVATION AND REFERENCE PLANS PROVIDED BY OTHERS. THERE MAY BE OTHER UTILITIES EXISTING THAT ARE NOT SHOWN. CONTACT DIG-SAFE (888) DIG-SAFE PRIOR TO ANY EXCAVATION WORK.
4. WETLANDS WERE DELINEATED BY ALBERT FRICK ASSOCIATES, NOVEMBER 19, 2020.
5. A GEOTECHNICAL SUBSURFACE INVESTIGATION WAS PERFORMED FOR THIS PROJECT BY S.W. COLE. REFER TO REPORT DATED JULY 19, 2023.

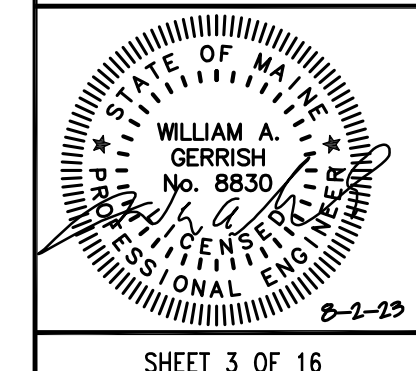
Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

PROJECT NUMBER: 42252    ACAD FILE: 42252-EXCONDIT.DWG    SCALE: 1" = 60'    DATE: JUNE 20, 2023

**EXISTING CONDITIONS PLAN**

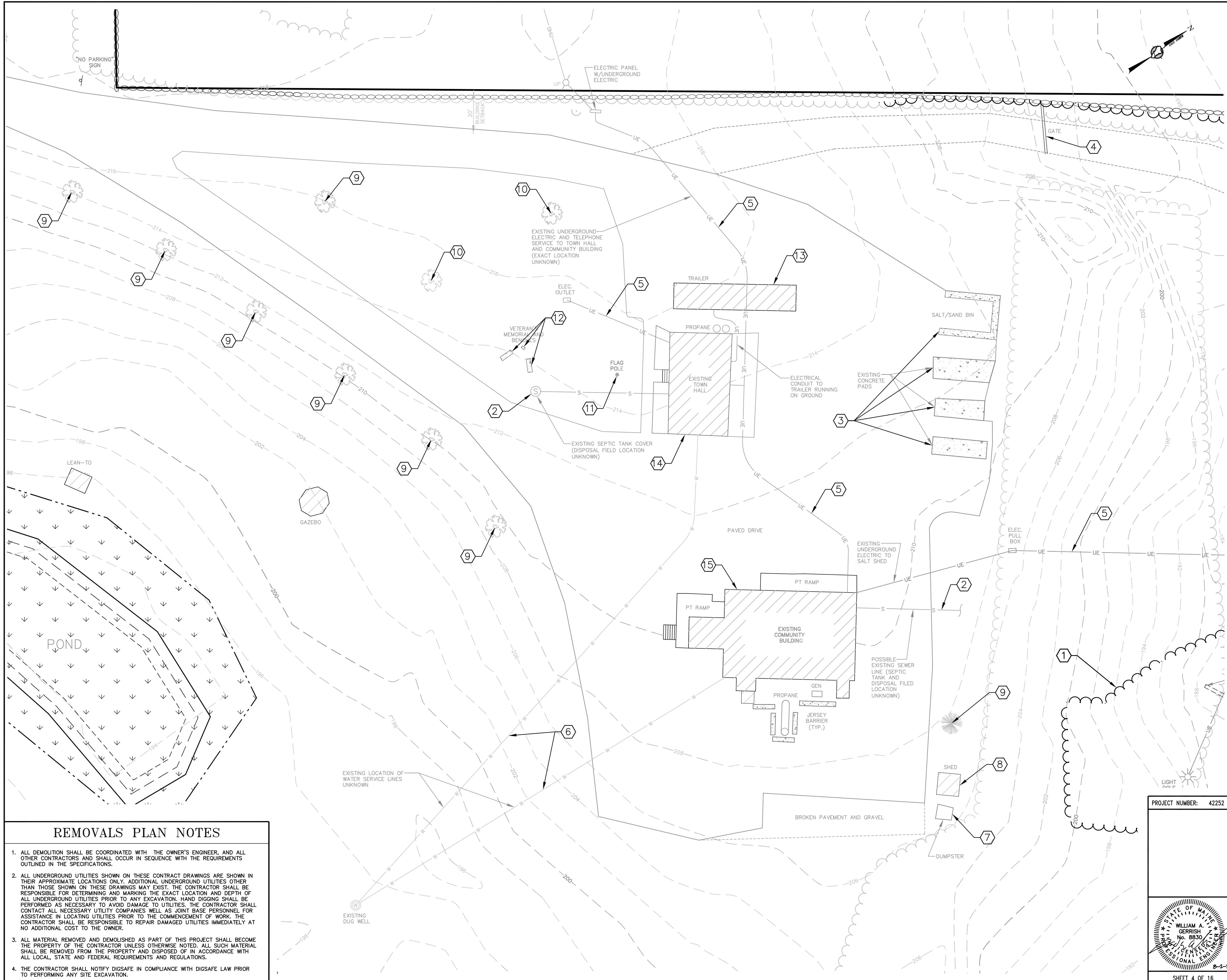
Project Name:  
**HOLLIS TOWN HALL**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042

Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042



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**LEGEND**

- BOUNDARY LINE
- BUILDING SETBACK
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- WETLAND
- EXISTING TREE LINE
- EXISTING TREE
- STONE WALL
- EXISTING UTILITY POLE
- OVERHEAD UTILITIES
- EXISTING WELL
- EXISTING WATER LINES
- EXISTING SEWER MANHOLE
- EXISTING SEWER LINE
- PROPOSED TREE LINE

**REMOVALS PLAN LEGEND**

- 1** CLEAR AND GRUB ALL EXISTING VEGETATION AND DEBRIS UP TO PROPOSED TREE LINE.
- 2** EXISTING SEPTIC TANK AND SEWER LINE TO BE PUMPED OUT AND REMOVED COMPLETELY INCLUDING REMOVAL OF EXISTING DISPOSAL FIELD. ALL MATERIAL SHALL BE DISPOSED OF OFF SITE PER LOCAL AND STATE REQUIREMENTS.
- 3** CONCRETE STRUCTURES TO BE REMOVED AND DISPOSED OF OFF SITE.
- 4** EXISTING SWING GATE TO BE REMOVED AFTER NEW SWING GATE IS INSTALLED.
- 5** EXISTING UNDERGROUND UTILITIES TO BE REMOVED AFTER NEW UNDERGROUND UTILITIES ARE CONSTRUCTED AND OPERATIONAL.
- 6** THE EXISTING WATER SERVICE LINES TO BE REMOVED AFTER NEW WATER SUPPLY WELL AND NEW WATER SERVICE LINES ARE CONSTRUCTED AND OPERATIONAL.
- 7** EXISTING DUMPSTER TO REMAIN. RELOCATE TO NEW DUMPSTER ENCLOSURE.
- 8** EXISTING SHED TO REMAIN. DO NOT DISTURB.
- 9** EXISTING TREE TO REMAIN. DO NOT DISTURB.
- 10** EXISTING TREE INCLUDING STUMP TO BE REMOVED FROM SITE.
- 11** EXISTING FLAG POLE AND FOUNDATION TO BE REMOVED.
- 12** EXISTING VETERAN'S MEMORIAL AND BENCHES TO BE REMOVED AND RELOCATED.
- 13** DISCONNECT AND REMOVE UTILITIES AND MOVE EXISTING TRAILER TO AN ON-SITE LOCATION DESIGNATED BY THE OWNER.
- 14** EXISTING TOWN HALL BUILDING TO REMAIN UNTIL COMPLETION OF PROPOSED TOWN HALL BUILDING. UPON COMPLETION AND COMMISSIONING OF NEW BUILDING, EXISTING TOWN HALL BUILDING AND CONCRETE FOUNDATION TO BE REMOVED AND DISPOSED OF OFF-SITE PER LOCAL AND STATE REQUIREMENTS. COORDINATE WITH OWNER/ARCHITECT.
- 15** EXISTING COMMUNITY BUILDING TO REMAIN UNDISTURBED AND OPERATIONAL THROUGHOUT PROJECT. REFER TO PHASING PLANS.

Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

**REMOVALS PLAN NOTES**

1. ALL DEMOLITION SHALL BE COORDINATED WITH THE OWNER'S ENGINEER, AND ALL OTHER CONTRACTORS AND SHALL OCCUR IN SEQUENCE WITH THE REQUIREMENTS OUTLINED IN THE SPECIFICATIONS.
2. ALL UNDERGROUND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. ADDITIONAL UNDERGROUND UTILITIES OTHER THAN THOSE SHOWN ON THESE DRAWINGS MAY EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND MARKING THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION. HAND DIGGING SHALL BE PERFORMED AS NECESSARY TO AVOID DAMAGE TO UTILITIES. THE CONTRACTOR SHALL CONTACT ALL NECESSARY UTILITY COMPANIES WELL AS JOINT BASE PERSONNEL FOR ASSISTANCE IN LOCATING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
3. ALL MATERIAL REMOVED AND DEMOLISHED AS PART OF THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL SUCH MATERIAL SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS AND REGULATIONS.
4. THE CONTRACTOR SHALL NOTIFY DIGSAFE IN COMPLIANCE WITH DIGSAFE LAW PRIOR TO PERFORMING ANY SITE EXCAVATION.

PROJECT NUMBER: 42252    ACAD FILE: 42252-DEMO.DWG    SCALE: 1" = 20'    DATE: JUNE 20, 2023

Drawing Name: **DEMOLITION PLAN**

Project Name: **HOLLIS TOWN HALL**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

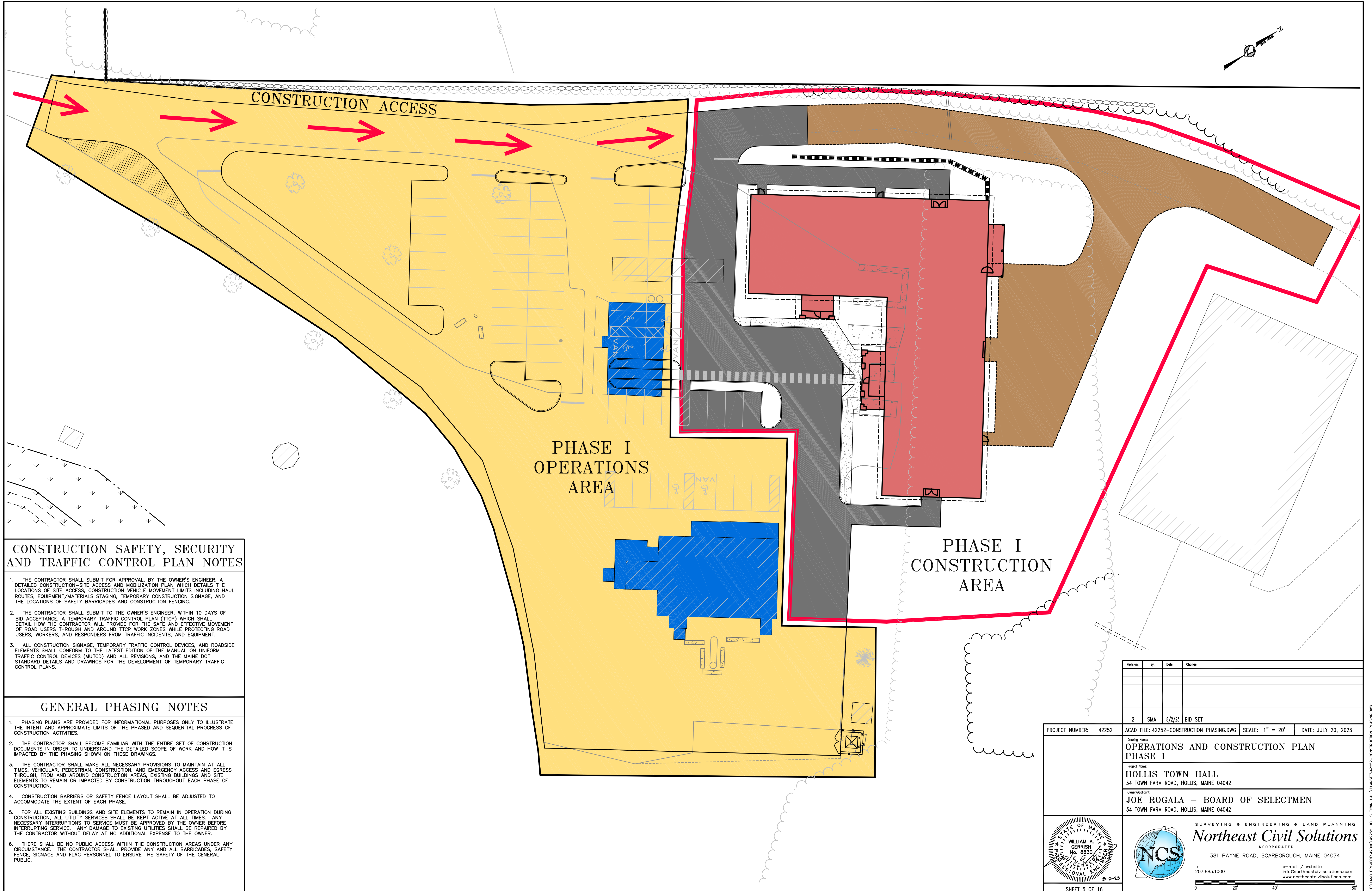
Owner/Applicant: **JOE ROGALA - BOARD OF SELECTMEN**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

WILLIAM A. GERRISH  
No. 8830  
Professional Engineer  
State of Maine

**Northeast Civil Solutions**  
INCORPORATED  
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SHEET 4 OF 16

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**CONSTRUCTION SAFETY, SECURITY AND TRAFFIC CONTROL PLAN NOTES**

1. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, BY THE OWNER'S ENGINEER, A DETAILED CONSTRUCTION-SITE ACCESS AND MOBILIZATION PLAN WHICH DETAILS THE LOCATIONS OF SITE ACCESS, CONSTRUCTION VEHICLE MOVEMENT LIMITS INCLUDING HAUL ROUTES, EQUIPMENT/MATERIALS STAGING, TEMPORARY CONSTRUCTION SIGNAGE, AND THE LOCATIONS OF SAFETY BARRICADES AND CONSTRUCTION FENCING.
2. THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S ENGINEER, WITHIN 10 DAYS OF BID ACCEPTANCE, A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) WHICH SHALL DETAIL HOW THE CONTRACTOR WILL PROVIDE FOR THE SAFE AND EFFECTIVE MOVEMENT OF ROAD USERS THROUGH AND AROUND TTCP WORK ZONES WHILE PROTECTING ROAD USERS, WORKERS, AND RESPONDERS FROM TRAFFIC INCIDENTS, AND EQUIPMENT.
3. ALL CONSTRUCTION SIGNAGE, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ALL REVISIONS, AND THE MAINE DOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS.

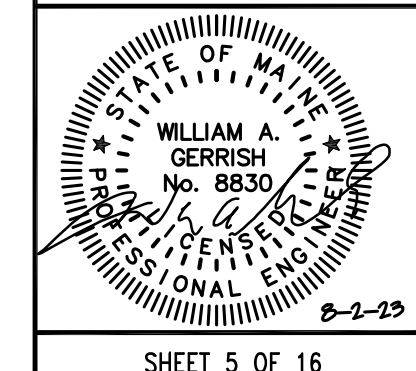
**GENERAL PHASING NOTES**

1. PHASING PLANS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY TO ILLUSTRATE THE INTENT AND APPROXIMATE LIMITS OF THE PHASED AND SEQUENTIAL PROGRESS OF CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE ENTIRE SET OF CONSTRUCTION DOCUMENTS IN ORDER TO UNDERSTAND THE DETAILED SCOPE OF WORK AND HOW IT IS IMPACTED BY THE PHASING SHOWN ON THESE DRAWINGS.
3. THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO MAINTAIN AT ALL TIMES, VEHICULAR, PEDESTRIAN, CONSTRUCTION, AND EMERGENCY ACCESS AND EGRESS THROUGH, FROM AND AROUND CONSTRUCTION AREAS, EXISTING BUILDINGS AND SITE ELEMENTS TO REMAIN OR IMPACTED BY CONSTRUCTION THROUGHOUT EACH PHASE OF CONSTRUCTION.
4. CONSTRUCTION BARRIERS OR SAFETY FENCE LAYOUT SHALL BE ADJUSTED TO ACCOMMODATE THE EXTENT OF EACH PHASE.
5. FOR ALL EXISTING BUILDINGS AND SITE ELEMENTS TO REMAIN IN OPERATION DURING CONSTRUCTION, ALL UTILITY SERVICES SHALL BE KEPT ACTIVE AT ALL TIMES. ANY NECESSARY INTERRUPTIONS TO SERVICE MUST BE APPROVED BY THE OWNER BEFORE INTERRUPTING SERVICE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT DELAY AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. THERE SHALL BE NO PUBLIC ACCESS WITHIN THE CONSTRUCTION AREAS UNDER ANY CIRCUMSTANCE. THE CONTRACTOR SHALL PROVIDE ANY AND ALL BARRICADES, SAFETY FENCE, SIGNAGE AND FLAG PERSONNEL TO ENSURE THE SAFETY OF THE GENERAL PUBLIC.

Revision	By	Date	Change
2	SMA	8/2/23	BID SET

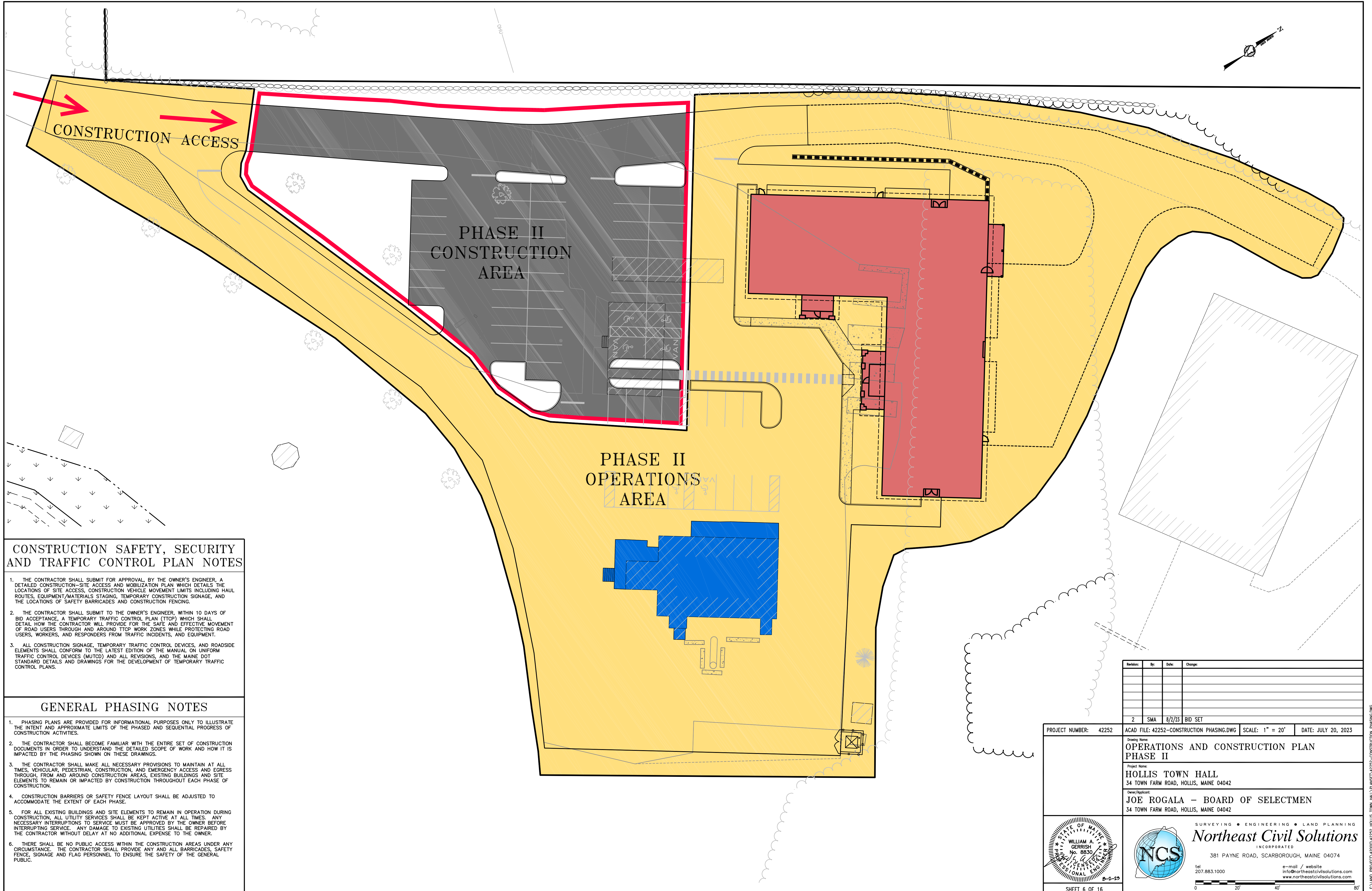
PROJECT NUMBER: 42252 ACAD FILE: 42252-CONSTRUCTION PHASING.DWG SCALE: 1" = 20' DATE: JULY 20, 2023

**OPERATIONS AND CONSTRUCTION PLAN  
PHASE I**  
 Project Name:  
**HOLLIS TOWN HALL**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042  
 Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042



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**CONSTRUCTION SAFETY, SECURITY AND TRAFFIC CONTROL PLAN NOTES**

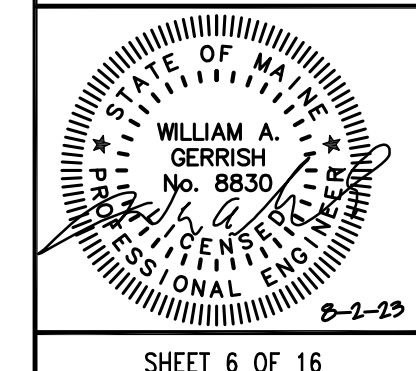
1. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, BY THE OWNER'S ENGINEER, A DETAILED CONSTRUCTION-SITE ACCESS AND MOBILIZATION PLAN WHICH DETAILS THE LOCATIONS OF SITE ACCESS, CONSTRUCTION VEHICLE MOVEMENT LIMITS INCLUDING HAUL ROUTES, EQUIPMENT/MATERIALS STAGING, TEMPORARY CONSTRUCTION SIGNAGE, AND THE LOCATIONS OF SAFETY BARRICADES AND CONSTRUCTION FENCING.
2. THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S ENGINEER, WITHIN 10 DAYS OF BID ACCEPTANCE, A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) WHICH SHALL DETAIL HOW THE CONTRACTOR WILL PROVIDE FOR THE SAFE AND EFFECTIVE MOVEMENT OF ROAD USERS THROUGH AND AROUND TTCP WORK ZONES WHILE PROTECTING ROAD USERS, WORKERS, AND RESPONDERS FROM TRAFFIC INCIDENTS, AND EQUIPMENT.
3. ALL CONSTRUCTION SIGNAGE, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ALL REVISIONS, AND THE MAINE DOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS.


**GENERAL PHASING NOTES**

1. PHASING PLANS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY TO ILLUSTRATE THE INTENT AND APPROXIMATE LIMITS OF THE PHASED AND SEQUENTIAL PROGRESS OF CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE ENTIRE SET OF CONSTRUCTION DOCUMENTS IN ORDER TO UNDERSTAND THE DETAILED SCOPE OF WORK AND HOW IT IS IMPACTED BY THE PHASING SHOWN ON THESE DRAWINGS.
3. THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO MAINTAIN AT ALL TIMES, VEHICULAR, PEDESTRIAN, CONSTRUCTION, AND EMERGENCY ACCESS AND EGRESS THROUGH, FROM AND AROUND CONSTRUCTION AREAS, EXISTING BUILDINGS AND SITE ELEMENTS TO REMAIN OR IMPACTED BY CONSTRUCTION THROUGHOUT EACH PHASE OF CONSTRUCTION.
4. CONSTRUCTION BARRIERS OR SAFETY FENCE LAYOUT SHALL BE ADJUSTED TO ACCOMMODATE THE EXTENT OF EACH PHASE.
5. FOR ALL EXISTING BUILDINGS AND SITE ELEMENTS TO REMAIN IN OPERATION DURING CONSTRUCTION, ALL UTILITY SERVICES SHALL BE KEPT ACTIVE AT ALL TIMES. ANY NECESSARY INTERRUPTIONS TO SERVICE MUST BE APPROVED BY THE OWNER BEFORE INTERRUPTING SERVICE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT DELAY AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. THERE SHALL BE NO PUBLIC ACCESS WITHIN THE CONSTRUCTION AREAS UNDER ANY CIRCUMSTANCE. THE CONTRACTOR SHALL PROVIDE ANY AND ALL BARRICADES, SAFETY FENCE, SIGNAGE AND FLAG PERSONNEL TO ENSURE THE SAFETY OF THE GENERAL PUBLIC.

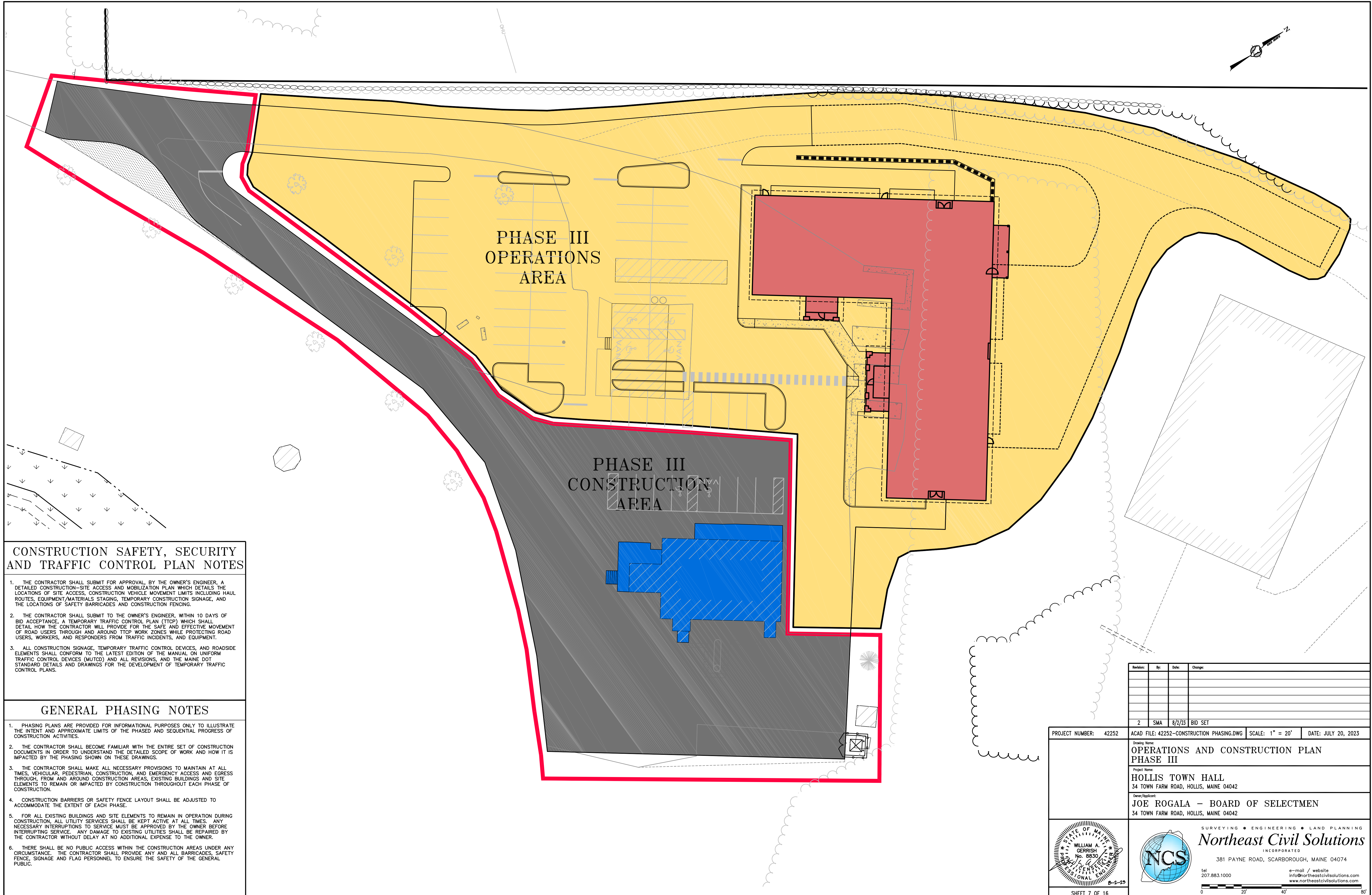
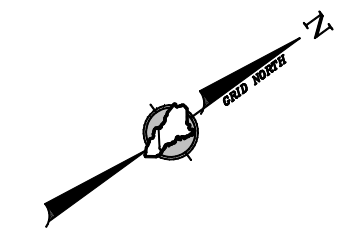
Revision	By	Date	Change
2	SMA	8/2/23	BID SET

PROJECT NUMBER: 42252	ACAD FILE: 42252-CONSTRUCTION PHASING.DWG	SCALE: 1" = 20'	DATE: JULY 20, 2023
Drawing Name: <b>OPERATIONS AND CONSTRUCTION PLAN          PHASE II</b>			
Project Name: <b>HOLLIS TOWN HALL</b> 34 TOWN FARM ROAD, HOLLIS, MAINE 04042			
Owner/Applicant: <b>JOE ROGALA - BOARD OF SELECTMEN</b> 34 TOWN FARM ROAD, HOLLIS, MAINE 04042			




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 INCORPORATED  
 381 PAYNE ROAD, SCARBOROUGH, MAINE 04074  
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E:\LAND PROJECTS\42252\42252-HOLLIS TOWN HALL\PHASING\42252-CONSTRUCTION PHASING.DWG



### CONSTRUCTION SAFETY, SECURITY AND TRAFFIC CONTROL PLAN NOTES

1. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, BY THE OWNER'S ENGINEER, A DETAILED CONSTRUCTION-SITE ACCESS AND MOBILIZATION PLAN WHICH DETAILS THE LOCATIONS OF SITE ACCESS, CONSTRUCTION VEHICLE MOVEMENT LIMITS INCLUDING HAUL ROUTES, EQUIPMENT/MATERIALS STAGING, TEMPORARY CONSTRUCTION SIGNAGE, AND THE LOCATIONS OF SAFETY BARRICADES AND CONSTRUCTION FENCING.
2. THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S ENGINEER, WITHIN 10 DAYS OF BID ACCEPTANCE, A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) WHICH SHALL DETAIL HOW THE CONTRACTOR WILL PROVIDE FOR THE SAFE AND EFFECTIVE MOVEMENT OF ROAD USERS THROUGH AND AROUND TTCP WORK ZONES WHILE PROTECTING ROAD USERS, WORKERS, AND RESPONDERS FROM TRAFFIC INCIDENTS, AND EQUIPMENT.
3. ALL CONSTRUCTION SIGNAGE, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ALL REVISIONS, AND THE MAINE DOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS.

### GENERAL PHASING NOTES

1. PHASING PLANS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY TO ILLUSTRATE THE INTENT AND APPROXIMATE LIMITS OF THE PHASED AND SEQUENTIAL PROGRESS OF CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE ENTIRE SET OF CONSTRUCTION DOCUMENTS IN ORDER TO UNDERSTAND THE DETAILED SCOPE OF WORK AND HOW IT IS IMPACTED BY THE PHASING SHOWN ON THESE DRAWINGS.
3. THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO MAINTAIN AT ALL TIMES, VEHICULAR, PEDESTRIAN, CONSTRUCTION, AND EMERGENCY ACCESS AND EGRESS THROUGH, FROM AND AROUND CONSTRUCTION AREAS, EXISTING BUILDINGS AND SITE ELEMENTS TO REMAIN OR IMPACTED BY CONSTRUCTION THROUGHOUT EACH PHASE OF CONSTRUCTION.
4. CONSTRUCTION BARRIERS OR SAFETY FENCE LAYOUT SHALL BE ADJUSTED TO ACCOMMODATE THE EXTENT OF EACH PHASE.
5. FOR ALL EXISTING BUILDINGS AND SITE ELEMENTS TO REMAIN IN OPERATION DURING CONSTRUCTION, ALL UTILITY SERVICES SHALL BE KEPT ACTIVE AT ALL TIMES. ANY NECESSARY INTERRUPTIONS TO SERVICE MUST BE APPROVED BY THE OWNER BEFORE INTERRUPTING SERVICE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT DELAY AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. THERE SHALL BE NO PUBLIC ACCESS WITHIN THE CONSTRUCTION AREAS UNDER ANY CIRCUMSTANCE. THE CONTRACTOR SHALL PROVIDE ANY AND ALL BARRICADES, SAFETY FENCE, SIGNAGE AND FLAG PERSONNEL TO ENSURE THE SAFETY OF THE GENERAL PUBLIC.

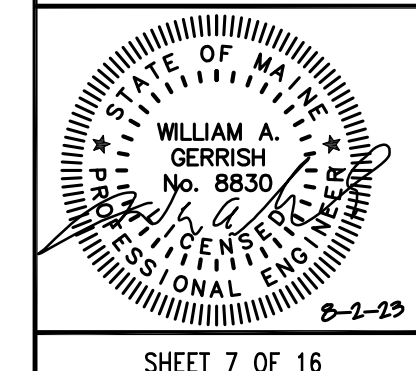
Revision	By	Date	Change
2	SMA	8/2/23	BID SET

PROJECT NUMBER: 42252 ACAD FILE: 42252-CONSTRUCTION PHASING.DWG SCALE: 1" = 20' DATE: JULY 20, 2023

Drawing Name:  
**OPERATIONS AND CONSTRUCTION PLAN  
PHASE III**

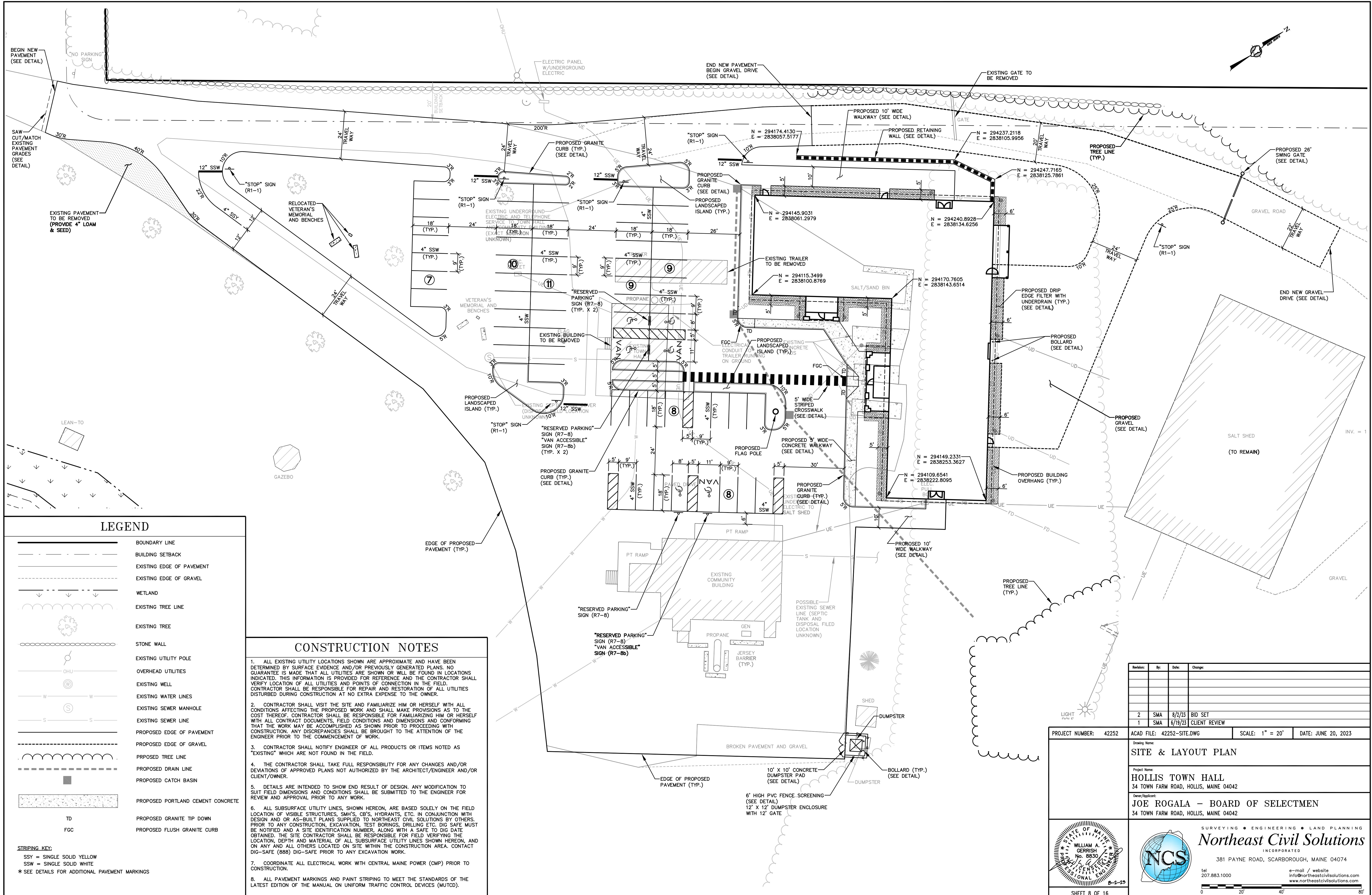
Project Name:  
**HOLLIS TOWN HALL**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042



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EL:\LAND PROJECTS\42252\42252-HOLLIS TOWN HALL\PHASING\42252-CONSTRUCTION PHASING.DWG



**LEGEND**

- BOUNDARY LINE
- BUILDING SETBACK
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- WETLAND
- EXISTING TREE LINE
- EXISTING TREE
- STONE WALL
- EXISTING UTILITY POLE
- OVERHEAD UTILITIES
- EXISTING WELL
- EXISTING WATER LINES
- EXISTING SEWER MANHOLE
- EXISTING SEWER LINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF GRAVEL
- PROPOSED TREE LINE
- PROPOSED DRAIN LINE
- PROPOSED CATCH BASIN
- PROPOSED PORTLAND CEMENT CONCRETE
- PROPOSED GRANITE TIP DOWN
- PROPOSED FLUSH GRANITE CURB

**STRIPING KEY:**  
 SSY = SINGLE SOLID YELLOW  
 SSW = SINGLE SOLID WHITE  
 \* SEE DETAILS FOR ADDITIONAL PAVEMENT MARKINGS

**CONSTRUCTION NOTES**

1. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND HAVE BEEN DETERMINED BY SURFACE EVIDENCE AND/OR PREVIOUSLY GENERATED PLANS. NO GUARANTEE IS MADE THAT ALL UTILITIES ARE SHOWN OR WILL BE FOUND IN LOCATIONS INDICATED. THIS INFORMATION IS PROVIDED FOR REFERENCE AND THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND POINTS OF CONNECTION IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND RESTORATION OF ALL UTILITIES DISTURBED DURING CONSTRUCTION AT NO EXTRA EXPENSE TO THE OWNER.
2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIM OR HERSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIM OR HERSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFORMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND IN THE FIELD.
4. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND/OR DEVIATIONS OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.
5. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. ANY MODIFICATION TO SUIT FIELD DIMENSIONS AND CONDITIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY WORK.
6. ALL SUBSURFACE UTILITY LINES, SHOWN HEREON, ARE BASED SOLELY ON THE FIELD LOCATION OF VISIBLE STRUCTURES, SM'S, CB'S, HYDRANTS, ETC. IN CONJUNCTION WITH DESIGN AND OR AS-BUILT PLANS SUPPLIED TO NORTHEAST CIVIL SOLUTIONS BY OTHERS. PRIOR TO ANY CONSTRUCTION, EXCAVATION, TEST BORINGS, DRILLING ETC. DIG SAFE MUST BE NOTIFIED AND A SITE IDENTIFICATION NUMBER, ALONG WITH A SAFE TO DIG DATE OBTAINED. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION, DEPTH AND MATERIAL OF ALL SUBSURFACE UTILITY LINES SHOWN HEREON, AND ON ANY AND ALL OTHERS LOCATED ON SITE WITHIN THE CONSTRUCTION AREA. CONTACT DIG-SAFE (888) DIG-SAFE PRIOR TO ANY EXCAVATION WORK.
7. COORDINATE ALL ELECTRICAL WORK WITH CENTRAL MAINE POWER (CMP) PRIOR TO CONSTRUCTION.
8. ALL PAVEMENT MARKINGS AND PAINT STRIPING TO MEET THE STANDARDS OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

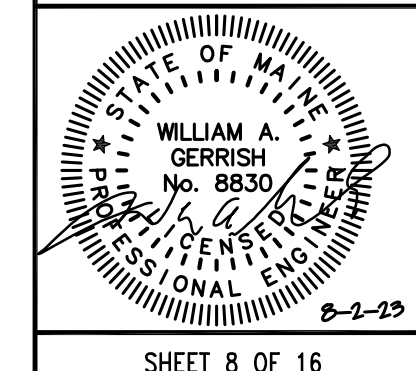
Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

PROJECT NUMBER: 42252 ACAD FILE: 42252-SITE.DWG SCALE: 1" = 20' DATE: JUNE 20, 2023

**SITE & LAYOUT PLAN**

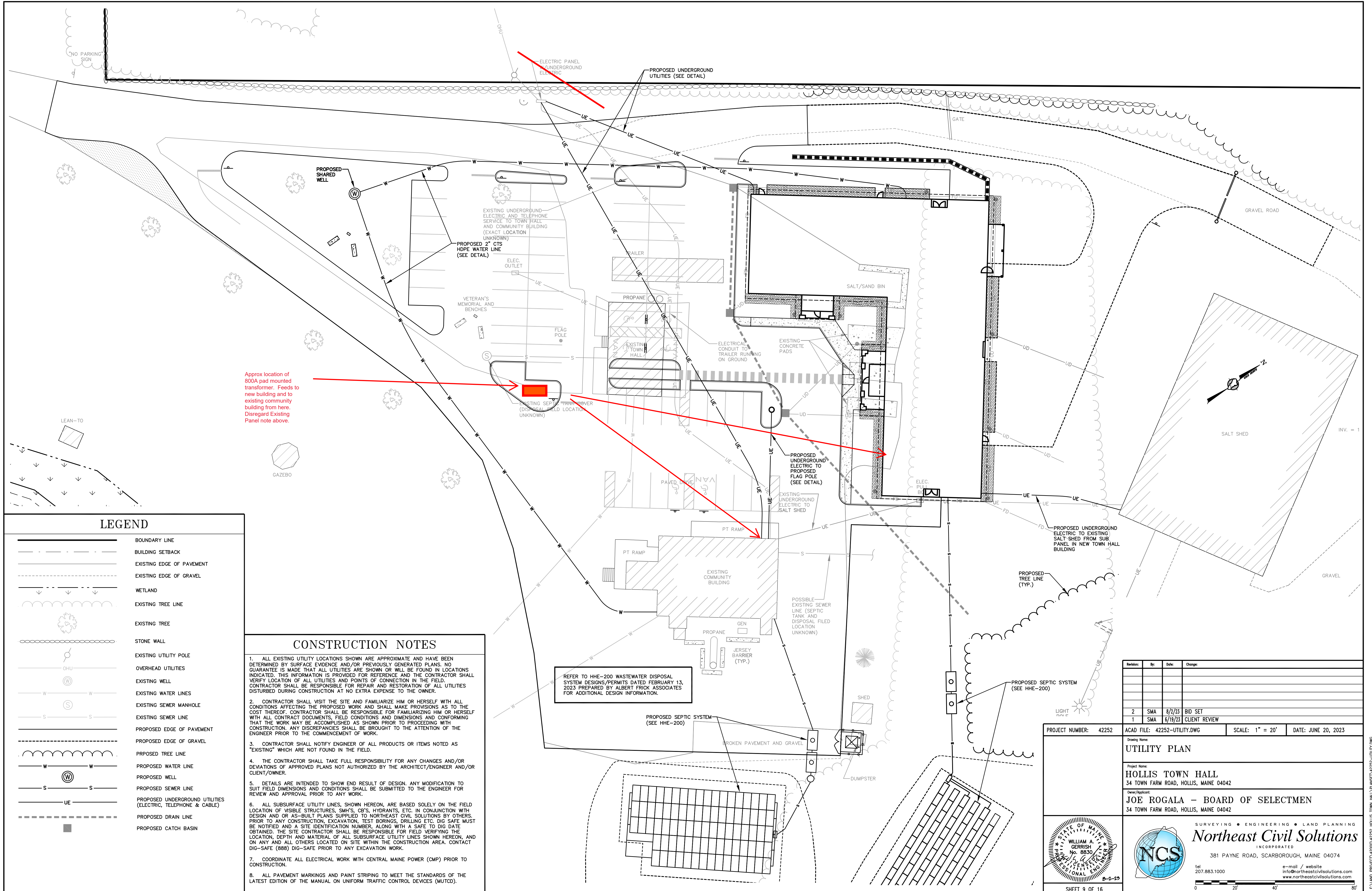
Project Name:  
**HOLLIS TOWN HALL**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042

Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042



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Approx location of 800A pad mounted transformer. Feeds to new building and to existing community building from here. Disregard Existing Panel note above.

REFER TO HHE-200 WASTEWATER DISPOSAL SYSTEM DESIGNS/PERMITS DATED FEBRUARY 13, 2023 PREPARED BY ALBERT FRICK ASSOCIATES FOR ADDITIONAL DESIGN INFORMATION.

**LEGEND**

- BOUNDARY LINE
- BUILDING SETBACK
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- WETLAND
- EXISTING TREE LINE
- EXISTING TREE
- STONE WALL
- EXISTING UTILITY POLE
- OVERHEAD UTILITIES
- EXISTING WELL
- EXISTING WATER LINES
- EXISTING SEWER MANHOLE
- EXISTING SEWER LINE
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF GRAVEL
- PROPOSED TREE LINE
- PROPOSED WATER LINE
- PROPOSED WELL
- PROPOSED SEWER LINE
- PROPOSED UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE & CABLE)
- PROPOSED DRAIN LINE
- PROPOSED CATCH BASIN

**CONSTRUCTION NOTES**

1. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND HAVE BEEN DETERMINED BY SURFACE EVIDENCE AND/OR PREVIOUSLY GENERATED PLANS. NO GUARANTEE IS MADE THAT ALL UTILITIES ARE SHOWN OR WILL BE FOUND IN LOCATIONS INDICATED. THIS INFORMATION IS PROVIDED FOR REFERENCE AND THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND POINTS OF CONNECTION IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND RESTORATION OF ALL UTILITIES DISTURBED DURING CONSTRUCTION AT NO EXTRA EXPENSE TO THE OWNER.
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7. COORDINATE ALL ELECTRICAL WORK WITH CENTRAL MAINE POWER (CMP) PRIOR TO CONSTRUCTION.
8. ALL PAVEMENT MARKINGS AND PAINT STRIPING TO MEET THE STANDARDS OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

PROJECT NUMBER: 42252 ACAD FILE: 42252-UTILITY.DWG SCALE: 1" = 20' DATE: JUNE 20, 2023

Drawing Name: **UTILITY PLAN**

Project Name: **HOLLIS TOWN HALL**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

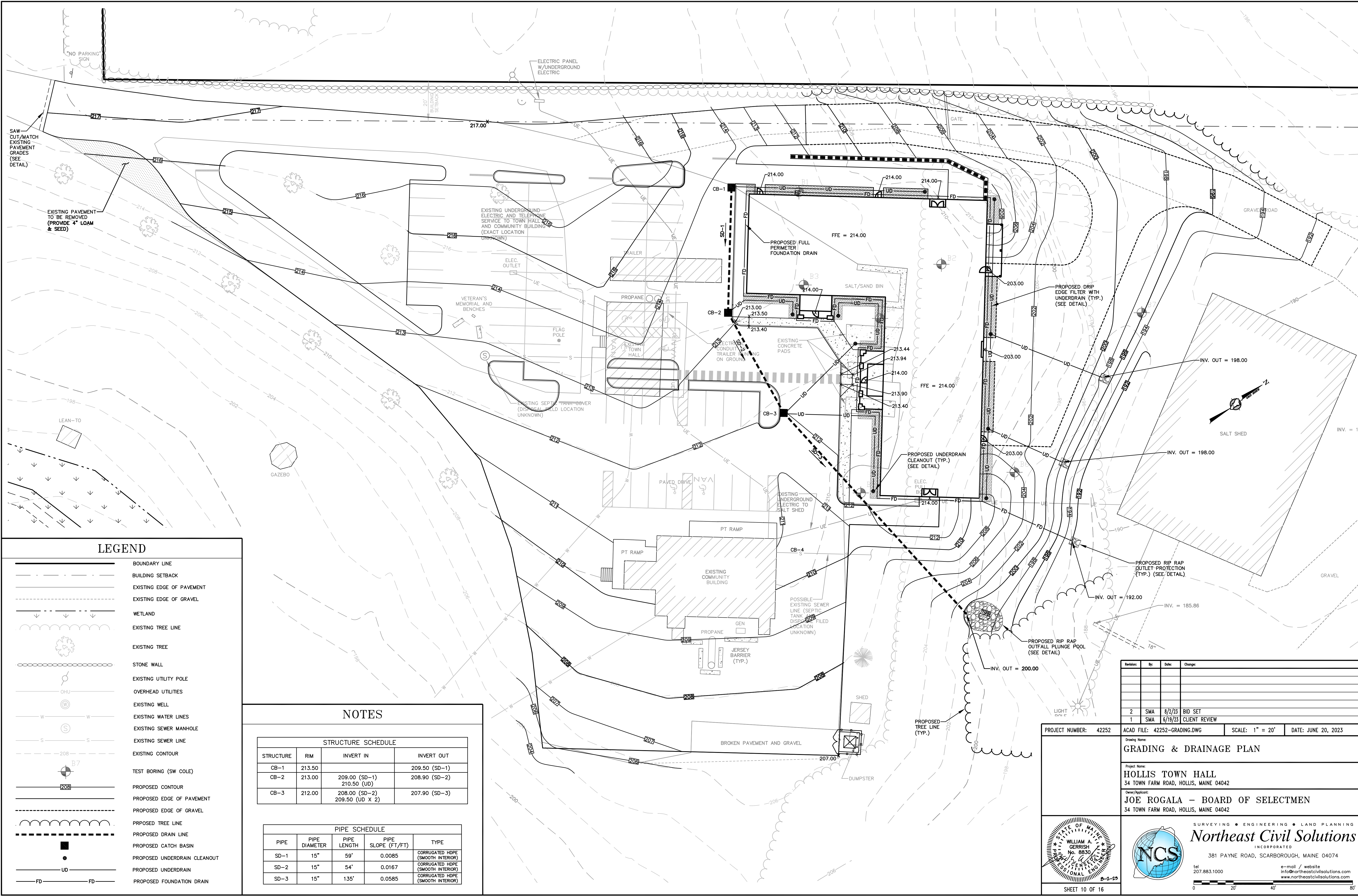
Owner/Applicant: **JOE ROGALA - BOARD OF SELECTMEN**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

WILLIAM A. GERRISH  
No. 8830  
Professional Engineer  
Maine State Seal

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SHEET 9 OF 16

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**LEGEND**

- BOUNDARY LINE
- BUILDING SETBACK
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- WETLAND
- EXISTING TREE LINE
- EXISTING TREE
- STONE WALL
- EXISTING UTILITY POLE
- OVERHEAD UTILITIES
- EXISTING WELL
- EXISTING WATER LINES
- EXISTING SEWER MANHOLE
- EXISTING SEWER LINE
- EXISTING CONTOUR
- TEST BORING (SW COLE)
- PROPOSED CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF GRAVEL
- PROPOSED TREE LINE
- PROPOSED DRAIN LINE
- PROPOSED CATCH BASIN
- PROPOSED UNDERDRAIN CLEANOUT
- PROPOSED UNDERDRAIN
- PROPOSED FOUNDATION DRAIN

**NOTES**

STRUCTURE SCHEDULE			
STRUCTURE	RIM	INVERT IN	INVERT OUT
CB-1	213.50		209.50 (SD-1)
CB-2	213.00	209.00 (SD-1) 210.50 (UD)	208.90 (SD-2)
CB-3	212.00	208.00 (SD-2) 209.50 (UD X 2)	207.90 (SD-3)

PIPE SCHEDULE				
PIPE	PIPE DIAMETER	PIPE LENGTH	PIPE SLOPE (FT/FT)	TYPE
SD-1	15"	59'	0.0085	CORRUGATED HDPE (SMOOTH INTERIOR)
SD-2	15"	54'	0.0167	CORRUGATED HDPE (SMOOTH INTERIOR)
SD-3	15"	135'	0.0585	CORRUGATED HDPE (SMOOTH INTERIOR)

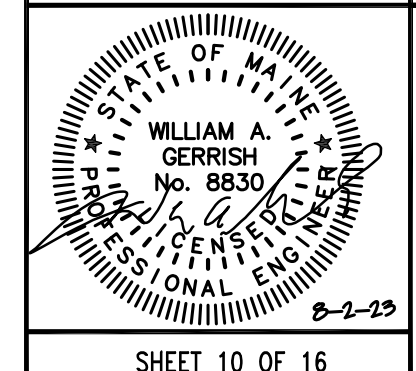
Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

PROJECT NUMBER: 42252 ACAD FILE: 42252-GRADING.DWG SCALE: 1" = 20' DATE: JUNE 20, 2023

Drawing Name:  
**GRADING & DRAINAGE PLAN**

Project Name:  
**HOLLIS TOWN HALL**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

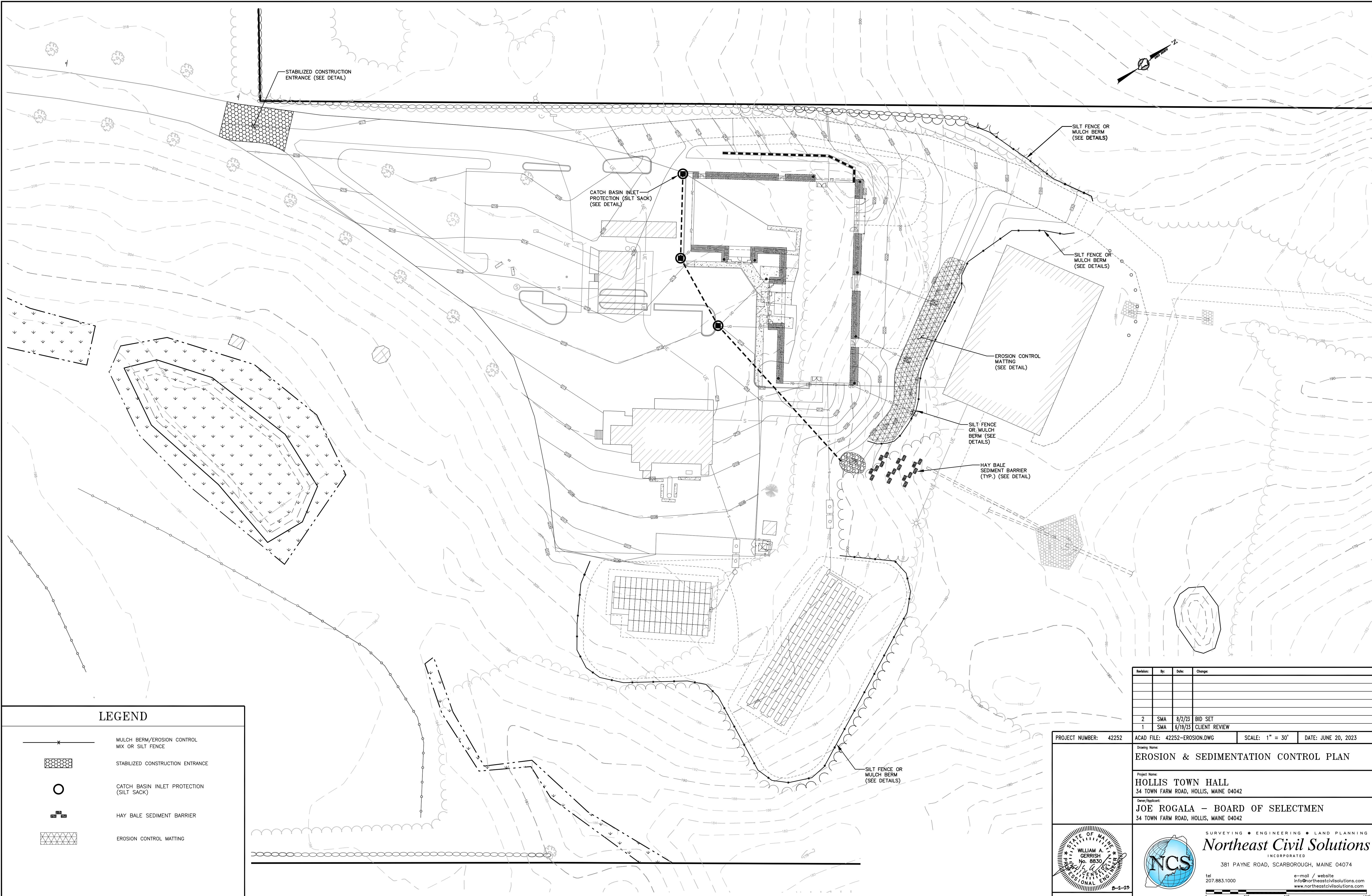


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STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL)

CATCH BASIN INLET PROTECTION (SILT SACK) (SEE DETAIL)

SILT FENCE OR MULCH BERM (SEE DETAILS)

SILT FENCE OR MULCH BERM (SEE DETAILS)

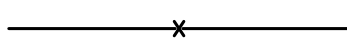
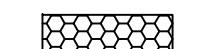



EROSION CONTROL MATTING (SEE DETAIL)

SILT FENCE OR MULCH BERM (SEE DETAILS)

HAY BALE SEDIMENT BARRIER (TYP.) (SEE DETAIL)

SILT FENCE OR MULCH BERM (SEE DETAILS)

**LEGEND**

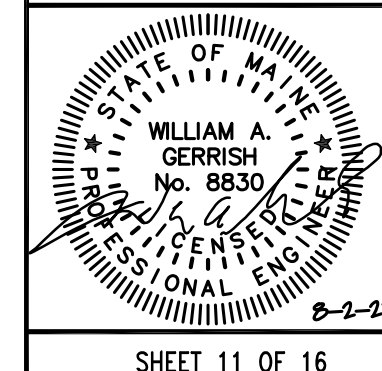
-  MULCH BERM/EROSION CONTROL MIX OR SILT FENCE
-  STABILIZED CONSTRUCTION ENTRANCE
-  CATCH BASIN INLET PROTECTION (SILT SACK)
-  HAY BALE SEDIMENT BARRIER
-  EROSION CONTROL MATTING

Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

PROJECT NUMBER: 42252 ACAD FILE: 42252-EROSION.DWG SCALE: 1" = 30' DATE: JUNE 20, 2023

**EROSION & SEDIMENTATION CONTROL PLAN**

Drawing Name:  
**HOLLIS TOWN HALL**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042  
 Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042



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E:\LAND PROJECT\42000\42252 HOLLIS TOWN HALL\PLANSET\42252-EROSION.DWG

**EROSION AND SEDIMENTATION CONTROL PLAN NOTES**

SEDIMENTATION AND EROSION FOR THIS PROJECT IS BASED UPON SOUND CONSERVATION PRACTICES, AND ADDRESSES TO THE STANDARDS DETAILED IN MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP) BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, DATED OCTOBER 2016. THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE AFORESAID PUBLICATION AND COMPLY WITH THE PRACTICES PRESENTED THEREIN.

A PERSON WHO CONDUCTS, OR CAUSES TO BE CONDUCTED, AN ACTIVITY THAT INVOLVES FILLING, DISPLACING OR EXPOSING SOIL OR OTHER EARTHEN MATERIALS SHALL TAKE MEASURES TO PREVENT UNREASONABLE EROSION OF SOIL OR SEDIMENT BEYOND THE PROJECT SITE OR INTO NEARBY WATERWAYS, STREAMS OR LAKES. MEASURES SHALL BE DESIGNED TO PREVENT UNREASONABLE EROSION OF SOIL OR SEDIMENT BEYOND THE PROJECT SITE OR INTO NEARBY WATERWAYS, STREAMS OR LAKES. MEASURES SHALL BE DESIGNED TO PREVENT UNREASONABLE EROSION OF SOIL OR SEDIMENT BEYOND THE PROJECT SITE OR INTO NEARBY WATERWAYS, STREAMS OR LAKES.

**1 EROSION AND SEDIMENTATION CONTROL**

**1.1 POLLUTION PREVENTION.** MINIMIZE DISTURBED AREAS AND PROTECT NATURAL DOWNGRADIENT BUFFER AREAS TO THE EXTENT PRACTICABLE. CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION. MINIMIZE THE DISTURBANCE OF STEEP SLOPES. CONTROL STORMWATER DISCHARGES INCLUDING BOTH PEAK FLOW RATES AND VOLUME TO MINIMIZE EROSION AT OUTLETS. THE DISCHARGE MAY NOT RESULT IN EROSION OF ANY OPEN DRAINAGE CHANNELS, SWALES, STREAM CHANNELS OR STREAM BANKS, IFLAND, OR CONCRETE OR PRESISTABLE WELLS OFF THE PROJECT SITE. WHENEVER PRACTICABLE, NO DISTURBANCE ACTIVITIES SHOULD TAKE PLACE WITHIN 50 FEET OF ANY PROTECTED NATURAL RESOURCE. IF DISTURBANCE ACTIVITIES TAKE PLACE BETWEEN 30 FEET AND 50 FEET OF ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREA TOWARD THE PROTECTED NATURAL RESOURCE, PERMITTER EROSION CONTROLS MUST BE DOUBLED. IF DISTURBANCE ACTIVITIES TAKE PLACE LESS THAN 30 FEET FROM ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREA TOWARD THE PROTECTED NATURAL RESOURCE, PERMITTER EROSION CONTROLS MUST BE DOUBLED AND DISTURBED AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 7 DAYS.

**1.2 SEDIMENT BARRIERS.** PRIOR TO CONSTRUCTION, PROPERLY INSTALL SEDIMENT BARRIERS AT THE DOWNGRADIENT EDGE OF ANY AREA TO BE DISTURBED AND ADJACENT TO ANY DRAINAGE CHANNELS WITHIN ANY MUNICIPAL EROSION CONTROL DISTRICTS. SEDIMENT BARRIERS SHOULD BE INSTALLED DOWNGRADIENT OF SOIL OR SEDIMENT STOCKPILES AND STORMWATER PREVENTED FROM RUNNING ONTO THE STOCKPILE. MAINTAIN THE SEDIMENT BARRIERS THROUGHOUT THE CONSTRUCTION PERIOD, REMOVING AND REPLACING THE BARRIER UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. WHERE A DISCHARGE TO A STORM DRAIN INLET OCCURS, IF THE STORM DRAIN CARRIES WATER DIRECTLY TO A SURFACE WATER AND YOU HAVE AUTHORITY TO ACCESS THE STORM DRAIN INLET, YOU MUST INSTALL AND MAINTAIN PROTECTION MEASURES THAT REMOVE SEDIMENT FROM THE DISCHARGE.

**1.3 STABILIZED CONSTRUCTION ENTRANCE.** PRIOR TO CONSTRUCTION, PROPERLY INSTALL A STABILIZED CONSTRUCTION ENTRANCE (SCE) AT ALL POINTS OF EGRESS FROM THE SITE. THE SCE IS A STABILIZED PAD OF AGGREGATE, UNDERLAIN BY A GEOTEXTILE FILTER FABRIC, OR A COMBINATION THEREOF, FROM TRUCKING MATERIAL AWAY FROM THE SITE INTO PUBLIC ROWS. MAINTAIN THE SCE UNTIL ALL DISTURBED AREAS ARE STABILIZED.

**1.4 TEMPORARY STABILIZATION.** WITHIN 7 DAYS OF THE CESSATION OF CONSTRUCTION ACTIVITIES IN AN AREA THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS, STABILIZE ANY EXPOSED SOIL WITH MULCH OR OTHER NON-EROSEABLE COVER. STABILIZE AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT. STABILIZATION SHALL BE COMPLETED BY THE END OF THE FIRST STORM EVENT FOLLOWING THE INITIAL DISTURBANCE.

**1.5 REMOVAL OF TEMPORARY MEASURES.** REMOVE ANY TEMPORARY CONTROL MEASURES, SUCH AS SILT FENCE, WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED. REMOVE ANY ACCUMULATED SEDIMENTS AND STABILIZE.

**1.6 PERMANENT STABILIZATION.** IF THE AREA WILL NOT BE WORKED FOR MORE THAN ONE YEAR OR HAS BEEN BUILT UPON, PERMANENT STABILIZATION MEANS STABILIZE THE AREA WITHIN 7 DAYS BY PLANTING VEGETATION, SEEDING, SOD, OR THROUGH THE USE OF PERMANENT MULCH, RIPRAP, OR ROAD SUB-BASE. IF USING VEGETATION TO STABILIZE, SEEDING OR SOD MUST BE DONE IN ACCORDANCE WITH THE LIGHT, MOISTURE, AND SOIL CONDITIONS; AMEND AREAS OF DISTURBED SUBSOILS WITH TOPSOIL, COMPOST, OR FERTILIZERS; PROTECT SEEDING AREAS WITH MULCH OR, IF REPLACEMENT AND PROTECTION ARE NOT SCHEDULED SODDING, PLANTING, AND SEEDING SO TO AVOID DIE-OFF FROM SUMMER DROUGHT AND FALL FROSTS. NEWLY SEED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC EXCESSIVE PENETRATING TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL-ESTABLISHED WITH 90% COVER BY HEALTHY VEGETATION. IF NECESSARY, AREAS MUST BE REWORKED AND REESTABLISHED IF GERMINATION IS SPORE, PLANT GROWTH IS SPORE, OR TOPSOIL EROSION IS EVIDENT, ONE OR MORE OF THE FOLLOWING MAY APPLY TO A PARTICULAR SITE.

**1.6.1 SEEDED AREAS.** FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS A 90% COVER OF THE DISTURBED SOIL WITH HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.

**1.6.2 SODDED AREAS.** FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.

**1.6.3 PERMANENT MULCH.** FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL. EROSION CONTROL MEASURES INCLUDING PERMANENT STABILIZATION ACCORDING TO THE APPROVED APPLICATION RATES AND LIMITATIONS.

**1.6.4 RIP RAP.** FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF WELL-SORTED GRAVEL OR APPROVED GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP. STONE MUST BE SIZED APPROPRIATELY. IT IS RECOMMENDED THAT ANGULAR STONE BE USED.

**1.6.5 AGRICULTURAL USE.** FOR CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL PURPOSES (E.G., PIPELINES ACROSS CROP LAND), PERMANENT STABILIZATION MAY BE ACCOMPLISHED BY RETURNING THE DISTURBED LAND TO AGRICULTURAL USE.

**1.6.6 PAVED AREAS.** FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETION OF THE CONCRETE OR ASPHALT FINISH AT THE END OF EACH CONSTRUCTION DAY. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE STABILIZED. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.

**1.6.7 DITCHES, CHANNELS, AND SWALES.** FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH A 90% COVER OF HEALTHY VEGETATION, WITH WELL-ROOTED RIPRAP LININGS AND REINFORCEMENT MAT, OR WITH ANOTHER NON-EROSIVE LINING SUCH AS CONCRETE OR ASPHALT PAVEMENT. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE CHANNEL LINING, UNDERCUTTING OF THE CHANNEL BANKS, OR DOWN-CUTTING OF THE CHANNEL.

**1.7 WINTER CONSTRUCTION.** "WINTER CONSTRUCTION" IS CONSTRUCTION ACTIVITY PERFORMED DURING THE PERIOD FROM NOVEMBER 1 THROUGH APRIL 15, IF DISTURBED AREAS ARE NOT STABILIZED WITH PERMANENT MEASURES BY NOVEMBER 1 OR NEW SOIL DISTURBANCE OCCURS AFTER NOVEMBER 1, BUT BEFORE APRIL 15, THEN THESE AREAS MUST BE PROTECTED AND RUNOFF FROM THEM MUST BE CONTROLLED BY ADDITIONAL MEASURES AND RESTRICTIONS.

**1.7.1 SITE STABILIZATION.** FOR WINTER STABILIZATION, HAY MULCH IS APPLIED AT TWICE THE STANDARD TEMPORARY STABILIZATION RATE. AT THE END OF EACH CONSTRUCTION DAY, AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE STABILIZED. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.

**1.7.2 SEDIMENT BARRIERS.** ALL AREAS WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS.

**1.7.3 DITCH.** ALL VEGETATED DITCH LINES THAT HAVE NOT BEEN STABILIZED BY NOVEMBER 1, OR WILL BE WORKED DURING THE WINTER CONSTRUCTION PERIOD, MUST BE STABILIZED WITH AN APPROPRIATE STONE LINING BACKED BY AN APPROPRIATE GRAVEL BED OR GEOTEXTILE UNLESS SPECIFICALLY RELEASED FROM THIS STANDARD BY THE DEPARTMENT.

**1.7.4 SLOPES.** MULCH NETTING MUST BE USED TO ANCHOR MULCH ON ALL SLOPES GREATER THAN 8% UNLESS EROSION CONTROL BLANKETS OR EROSION CONTROL MIX IS BEING USED ON THESE SLOPES.

**1.8 STORMWATER CHANNELS, DITCHES, SWALES, AND OTHER OPEN STORMWATER CHANNELS** MUST BE DESIGNED, CONSTRUCTED, USING MEASURES THAT ACHIEVE LONG-TERM EROSION CONTROL. DITCHES, SWALES AND OTHER OPEN STORMWATER CHANNELS MUST BE SIZED TO HANDLE, AT A MINIMUM, THE EXPECTED VOLUME RUN-OFF. EACH CHANNEL SHOULD BE CONSTRUCTED IN SECTIONS SO THAT THE SECTION'S GRADING, SHAPING, AND INSTALLATION OF THE PERMANENT LINING CAN BE COMPLETED THE SAME DAY. IF A CHANNEL'S FINAL GRADING OR LINING INSTALLATION MUST BE DELAYED, THEN OVERFLOW BERMS MUST BE USED TO DIVERT STORMWATER AWAY FROM THE CHANNEL. PROPERLY-SPACED CHECK DAMS MUST BE INSTALLED IN THE CHANNEL TO SLOW THE WATER VELOCITY, AND A TEMPORARY LINING SHOULD BE INSTALLED IN THE CHANNEL TO PREVENT SCOURING. PERMANENT STABILIZATION FOR CHANNELS IS ADDRESSED UNDER SECTION 1.6.7 ABOVE.

**1.8.1** THE CHANNEL SHOULD RECEIVE ADEQUATE ROUTINE MAINTENANCE TO MAINTAIN CAPACITY AND PREVENT OR CORRECT ANY EROSION OF THE CHANNEL'S BOTTOM OR SIDE SLOPES.

**1.8.2** WHEN THE WATERSHED DRAINING TO A DITCH OR SWALE IS LESS THAN 1 ACRE OF TOTAL DRAINAGE AND LESS THAN 4% OF THE WATERSHED AREA, DIVERSION OF RUNOFF TO ADJACENT WOODED OR OTHERWISE VEGETATED BUFFER AREAS IS ENCOURAGED WHERE THE OPPORTUNITY EXISTS.

**1.9 SEDIMENT BASINS.** SEDIMENT BASINS MUST BE DESIGNED TO STORE STORAGE FOR EITHER THE CALCULATED RUNOFF FROM A 2-YEAR, 24-HOUR STORM OR OUTLET FOR 3,600 CUBIC FEET OF CAPACITY PER ACRE DRAINING TO THE BASIN. CIVIL ENGINEERS MUST DESIGN THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE STRUCTURES MUST DISCHARGE WATER FROM THE SURFACE OF THE BASIN WHENEVER POSSIBLE. EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES MUST BE USED IF THE DISCHARGING WATER IS LIKELY TO GREATLY ACCUMULATED SEDIMENT MUST BE REMOVED AS NEEEDED FROM THE BASIN TO MAINTAIN AT LEAST 1/4 OF THE DESIGN CAPACITY OF THE BASIN. THE USE OF CATIONIC TREATMENT CHEMICALS, SUCH AS POLYMERS, FLOCCULANTS, OR OTHER CHEMICALS THAT CONTAIN AN OVERALL POSITIVE CHARGE DESIGNED TO REDUCE TURBIDITY IN STORMWATER MUST RECEIVE PRIOR APPROVAL FROM THE DEPARTMENT. WHERE THE USE OF SUCH CHEMICALS IS NECESSARY, THE CONTRACTOR MUST DESCRIBE APPROPRIATE PROCEDURES AND IMPLEMENTATION PROCEDURES TO ENSURE THE USE WILL NOT LEAD TO A VIOLATION OF WATER QUALITY STANDARDS. IN ADDITION, YOU MUST SPECIFY THE TYPE(S) OF SOIL LIKELY TO BE TREATED ON THE SITE, CHEMICALS TO BE USED AND HOW THEY ARE TO BE APPLIED AND IN WHAT QUANTITY, ANY MANUFACTURER'S RECOMMENDATIONS, AND ANY TRAINING HAD BY PERSONNEL WHO WILL HANDLE AND APPLY THE CHEMICALS.

**1.10 ROADS, GRAVEL AND PAVED ROADS** MUST BE DESIGNED AND CONSTRUCTED WITH CROWN OR OTHER MEASURES, SUCH AS WATER BARS, TO ENSURE THAT STORMWATER IS DELIVERED IMMEDIATELY TO ADJACENT STABLE DITCHES, VEGETATED BARRIER AREAS, CATCH BASINS, OR OTHER APPROPRIATE EROSION CONTROL MEASURES.

**1.11 CULVERTS.** CULVERTS MUST BE SIZED TO AVOID UNINTENDED FLOODING OF UPSTREAM AREAS OR PREVENT OVERTOPPING OF ROADWAYS. CULVERT INLETS MUST BE PROTECTED WITH APPROPRIATE MATERIALS FOR THE EXPECTED ENTRANCE VELOCITY, AND PROTECTION MUST EXTEND AT LEAST AS HIGH AS THE EXPECTED MAXIMUM ELEVATION. INSPECTOR MUST APPROVE THE PROTECTION DESIGN. DESIGN MUST INCORPORATE MEASURES, SUCH AS APRONS, TO PREVENT SCOUR OF THE STREAM CHANNEL. OUTLET PROTECTION MEASURES MUST BE DESIGNED TO STAY WITHIN THE CHANNEL LIMITS. THE DESIGN MUST TAKE ACCOUNT OF TALWATER DEPTH.

**1.12 PARKING AREAS.** PARKING AREAS MUST BE CONSTRUCTED TO ENSURE RUNOFF IS DELIVERED TO ADJACENT SWALES, CATCH BASINS, CURB CUTTERS, OR BUFFER AREAS WITHOUT ERODING AREAS DOWN-SLOPE. THE PARKING AREA'S SUB-BASE COMPACTION AND GRADING MUST BE DONE TO ENSURE RUNOFF IS EVENLY DISTRIBUTED TO ADJACENT BUFFERS OR SIDE SLOPES. CATCH BASINS MUST BE LOCATED AND SET TO PROVIDE ENOUGH STORAGE FOR THE INLETTED RUNOFF TO ALLOW INFLOW OF PEAK RUNOFF RATES WITHOUT BY-PASS OF RUNOFF TO OTHER AREAS.

**2 INSPECTION AND MAINTENANCE**

**2.1 DURING CONSTRUCTION.** THE FOLLOWING STANDARDS MUST BE MET DURING CONSTRUCTION.

**2.1.1 INSPECTION AND CORRECTIVE ACTION.** INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION CONTROL MEASURES, MATERIALS STORAGE AREAS THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. INSPECT THESE AREAS AT LEAST ONCE A WEEK AS WELL AS BEFORE AND WITHIN 24 HOURS AFTER A STORM EVENT. THE LETTIER MUST SPECIFY THE COMPONENTS OF THE SYSTEM FOR WHICH THE MUNICIPALITY OR DISTRICT WILL ASSUME RESPONSIBILITY AND THAT THE MUNICIPALITY OR DISTRICT AGREES TO MAINTAIN THESE COMPONENTS AT THE SYSTEM IN COMPLIANCE WITH DEPARTMENT STANDARDS. UPON SUCH ASSUMPTION OF RESPONSIBILITY, AND APPROVAL BY THE DEPARTMENT, THE MUNICIPALITY OR DISTRICT MUST DEVELOP, AND IMPLEMENT, AN EROSION CONTROL CO-PERMITTEE FOR THIS PURPOSE ONLY AND MUST COMPLY WITH ALL TERMS AND CONDITIONS OF THE PERMIT.

**2.1.2 MAINTENANCE.** IF BEST MANAGEMENT PRACTICES (BMPs) NEED TO BE REPAIRED, THE REPAIR WORK SHOULD BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPs OR SIGNIFICANT REPAIRS ARE NECESSARY, REPAIRS OR IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.

**2.1.3 DOCUMENTATION.** KEEP A LOG (REPORT) SUMMARIZING THE INSPECTIONS AND ANY CORRECTIVE ACTION TAKEN. MUST INCLUDE THE MAKE(S) AND QUALIFICATIONS OF THE PERSON MAKING THE INSPECTIONS, THE DATE(S) OF THE INSPECTIONS, AND MAJOR OBSERVATIONS ABOUT THE OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES. STORAGE AREAS, AND VEHICLE ACCESS POINTS TO THE PARCEL. MAJOR OBSERVATIONS MUST INCLUDE BMPs THAT NEED MAINTENANCE, BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED. FOR EACH BMP REQUIRING MAINTENANCE, BMP NEEDING REPLACEMENT, AND LOCATION NEEDING ADDITIONAL BMPs, NOTE THE LOG THE CORRECTIVE ACTION TAKEN AND WHEN IT WAS TAKEN. THE LOG MUST BE MADE ACCESSIBLE TO DEPARTMENT STAFF AND A COPY MUST BE PROVIDED UPON REQUEST. THE PERMITTEE SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST THREE YEARS FROM THE COMPLETION OF PERMANENT STABILIZATION.

**2.2 POST-CONSTRUCTION.** THE FOLLOWING STANDARDS MUST BE MET AFTER CONSTRUCTION.

**2.2.1 PLAN.** CARRY OUT AN APPROVED INSPECTION AND MAINTENANCE PLAN THAT IS CONSISTENT WITH THE MINIMUM REQUIREMENTS OF THE PERMIT. THE PLAN MUST ADDRESS INSPECTION AND MAINTENANCE OF THE PROJECTS PERMANENT EROSION CONTROL MEASURES AND STORMWATER MANAGEMENT SYSTEM.

**2.2.2 INSPECTION AND MAINTENANCE.** ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. A PERSON MUST CONDUCT INSPECTIONS AND STORMWATER CONTROL, INCLUDING THE STANDARDS AND CONDITIONS IN THE PERMIT, SHALL CONDUCT THE INSPECTIONS. THE FOLLOWING AREAS, FACILITIES, AND MEASURES MUST BE INSPECTED AND CORRECTED AS NEEDED. CORRECTED AREAS, FACILITIES, AND MEASURES OTHER THAN THOSE LISTED BELOW MAY ALSO REQUIRE INSPECTION ON A SPECIFIC SITE. INSPECTION OR MAINTENANCE TASKS OTHER THAN THOSE DISCUSSED BELOW MUST BE INCLUDED IN THE MAINTENANCE PLAN DEVELOPED FOR A SPECIFIC SITE.

**2.2.2.1 INSPECT VEGETATED AREAS,** PARTICULARLY SLOPES AND EMBANKMENTS, EARLY IN THE GROWING SEASON OR AFTER HEAVY RAINS TO IDENTIFY ACTIVE OR POTENTIAL EROSION PROBLEMS. VEGETATION PROBLEMS ARE AREAS WITH SPARSE GROWTH, WHERE RILL EROSION IS EVIDENT, ARMOR THE AREA WITH AN APPROPRIATE LINING OR CONVERT THE EROSION FLOW TO ON-SITE AREAS ABLE TO WITHSTAND THE CONCENTRATED FLOWS. SEE PERMANENT STABILIZATION STANDARDS IN SECTION 1.6.

**2.2.2.2 INSPECT DITCHES, SWALES AND OTHER OPEN STORMWATER CHANNELS** IN THE SPRING, IN LATE FALL, AND AFTER HEAVY RAINS TO REMOVE ANY OBSTRUCTIONS TO FLOW. REMOVE OBSTRUCTIONS TO FLOW. REMOVE ACCUMULATED SEDIMENTS AND DEBRIS AT THE INLET, AT THE OUTLET, AND WITHIN THE CONDUIT; AND TO REPAIR ANY EROSION DAMAGE AT THE CULVERT'S INLET AND OUTLET.

**2.2.2.3 INSPECT AND CLEAN** OUT CATCH BASINS. CLEAN-OUT MUST INCLUDE THE REMOVAL AND LEGAL DISPOSAL OF ANY ACCUMULATED SEDIMENTS AND DEBRIS AT THE BOTTOM OF THE BASIN, AT ANY INLET GRATES, AT ANY INFLOW CHANNELS TO THE BASIN, AND AT ANY PIPES BETWEEN BASINS. IF THE BASIN OUTLET IS DESIGNED TO TRAP FLOATING MATERIALS, THEN REMOVE THE FLOATING DEBRIS AND ANY FLOATING OILS (USING OIL-ABSORPTIVE PADS).

**2.2.2.4 INSPECT RESOURCE** AND TREATMENT BUFFERS ONCE A YEAR FOR EVIDENCE OF EROSION, CONCENTRATING FLOW, AND ENCRUSTMENT BY DEVELOPMENT. IF FLOWS ARE CONCENTRATING WITHIN A BUFFER, SITE GRADING, LEVEL SPREADERS, OR DITCH TURN-OUTS MUST BE USED TO ENSURE A MORE EVEN DISTRIBUTION OF FLOW INTO A BUFFER. CLEAN-OUT ANY ACCUMULATED SEDIMENT WITHIN THE SPREADER BAYS OR TURN-OUT POOLS.

**2.2.2.5 INSPECT** RESOURCE AND TREATMENT BUFFERS ONCE A YEAR FOR EVIDENCE OF EROSION, CONCENTRATING FLOW, AND ENCRUSTMENT BY DEVELOPMENT. IF FLOWS ARE CONCENTRATING WITHIN A BUFFER, SITE GRADING, LEVEL SPREADERS, OR DITCH TURN-OUTS MUST BE USED TO ENSURE A MORE EVEN DISTRIBUTION OF FLOW INTO A BUFFER. CLEAN-OUT ANY ACCUMULATED SEDIMENT WITHIN THE SPREADER BAYS OR TURN-OUT POOLS.

**2.2.2.6 INSPECT AT LEAST** ONCE PER YEAR, EACH STORMWATER MANAGEMENT Pond or Basin, including the Pond's Embankments, Outlet Structure, and Emergency Spillway. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENTS IN THE POND. CONTROL WOODY VEGETATION ON THE POND'S EMBANKMENTS.

**2.2.2.7 INSPECT AT LEAST** ONCE PER YEAR, EACH UNDERDRAINED FILTER, INCLUDING THE FILTER EMBANKMENTS, VEGETATION, UNDERDRAIN PIPING, AND OVERFLOW SPILLWAY. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENTS IN THE FILTER. IF NEEDED, REHABILITATE ANY CLOGGED SURFACE LININGS, AND FLUSH UNDERDRAIN PIPING.

**2.2.2.8 INSPECT** EACH MANUFACTURED SYSTEM INSTALLED ON THE SITE, INCLUDING THE SYSTEM'S INLET, TREATMENT CHAMBER(S), AND OUTLET. AT LEAST ONCE PER YEAR, OR IN ACCORDANCE WITH MAINTENANCE GUIDELINES RECOMMENDED BY THE MANUFACTURER BASED ON THE ESTIMATED RUNOFF AND POLLUTANT LOAD EXPECTED TO THE SYSTEM FROM THE PROJECT, REMOVE AND DISPOSE OF ACCUMULATED SEDIMENTS, DEBRIS, AND CONTAMINATED WATERS FROM THE SYSTEM AND, IF APPLICABLE, REMOVE AND REPLACE ANY CLOGGED OR SPENT FILTER MEDIA.

**2.2.3 REGULAR MAINTENANCE**

**2.2.3.1 CLEAR** ACCUMULATIONS OF WINTER SAND IN PARKING LOTS AND ALONG ROADWAYS AT LEAST ONCE A YEAR, PREFERABLY IN THE SPRING. ACCUMULATIONS ON PAVEMENT MAY BE REMOVED BY PAVEMENT SWEEPING. SECURE THE DISCHARGING WATER BEING REMOVED BY GRADING EXCESS SAND TO THE PAVEMENT EDGE AND REMOVING IT MANUALLY OR BY A FRONT-END LOADER. GRADING OF GRAVEL ROADS, OR GRADING OF THE GRAVEL SHOULDERS OF GRAVEL ROADS, MUST BE ROUTINELY PERFORMED TO ENSURE THAT STORMWATER DRAINS IMMEDIATELY OFF THE ROAD SURFACE TO ADJACENT BUFFER AREAS OR OTHER EROSION CONTROL MEASURES. ACCUMULATIONS OF GRADED MATERIAL ON THE ROAD SHOULDER OR ON EXCAVATION OF FALSE DITCHES IN THE SHOULDER, IF WATER BARS OR OPEN-TOP CULVERTS ARE USED TO DIVERT RUNOFF FROM ROAD SHOULDERS, CLEAN-OUT ANY SEDIMENT OR AT THE OUTLET OF THESE STRUCTURES TO RESTORE THEIR FUNCTION.

**2.2.3.2 MANAGE** EACH BUFFER'S VEGETATION CONSISTENTLY WITH THE REQUIREMENTS IN ANY DEED RESTRICTIONS FOR THE BUFFER. WOODED BUFFERS MUST REMAIN FULLY WOODED AND HAVE NO DISTURBANCE TO THE DUFT LAYER. VEGETATION IN NON-WOODED BUFFERS MAY NOT BE CUT MORE THAN THREE TIMES PER YEAR, AND MAY NOT BE CUT SHORTER THAN SIX INCHES.

**2.2.4 DOCUMENTATION.** KEEP A LOG (REPORT) SUMMARIZING INSPECTIONS, MAINTENANCE, AND ANY CORRECTIVE ACTIONS TAKEN. THE LOG MUST INCLUDE THE DATE ON WHICH EACH INSPECTION OR MAINTENANCE TASK WAS PERFORMED, A DESCRIPTION OF THE INSPECTION FINDINGS OR MAINTENANCE COMPLETED, AND THE NAME OF THE INSPECTOR OR MAINTENANCE PERSONNEL PERFORMING THE TASK. IF A MAINTENANCE TASK REQUIRES THE CLEAN-OUT OF ANY SEDIMENTS OR DEBRIS, INDICATE WHERE THE SEDIMENT AND DEBRIS WAS DISPOSED AFTER REMOVAL FROM THE SYSTEM. THE LOG MUST INCLUDE THE DATE OF THE COPY PROVIDED TO THE DEPARTMENT UPON REQUEST. THE PERMITTEE SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST FIVE YEARS FROM THE COMPLETION OF PERMANENT STABILIZATION.

**2.3 DURATION OF MAINTENANCE.** PERFORM MAINTENANCE AS DESCRIBED AND REQUIRED IN AREAS WITHOUT ERODING AREAS DOWN-SLOPE. THE PARKING AREAS' SUB-BASE COMPACTION AND GRADING MUST BE DONE TO ENSURE RUNOFF IS EVENLY DISTRIBUTED TO ADJACENT BUFFERS OR SIDE SLOPES. CATCH BASINS MUST BE LOCATED AND SET TO PROVIDE ENOUGH STORAGE FOR THE INLETTED RUNOFF TO ALLOW INFLOW OF PEAK RUNOFF RATES WITHOUT BY-PASS OF RUNOFF TO OTHER AREAS.

**3 HOUSEKEEPING**

**3.1 SPILL PREVENTION.** CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP, AND IMPLEMENT AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING MEASURES.

**3.2 GROUNDWATER PROTECTION.** DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, Sumps, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MUST BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF MATERIALS. ANY PROJECT INVOLVING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT THE ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE, AND CONSEQUENT FLOODING AND DESTABILIZATION.

**3.3 FUGITIVE SEDIMENT AND DUST.** ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT ENTAIL DURING CONSTRUCTION OR AFTER CONSTRUCTION. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT ENTAIL DURING CONSTRUCTION OR AFTER CONSTRUCTION. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT ENTAIL DURING CONSTRUCTION OR AFTER CONSTRUCTION. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT ENTAIL DURING CONSTRUCTION OR AFTER CONSTRUCTION.

**3.4 DEBRIS** AND OTHER MATERIALS. MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BULKY AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.

**3.5 EXCAVATION DE-WATERING.** EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY FOULED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO ANOTHER AREA THAT IS SPECIALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.

**3.6 AUTHORIZED NON-STORMWATER DISCHARGES.** IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE SUCH DISCHARGES ARE KNOWN TO EXIST, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:

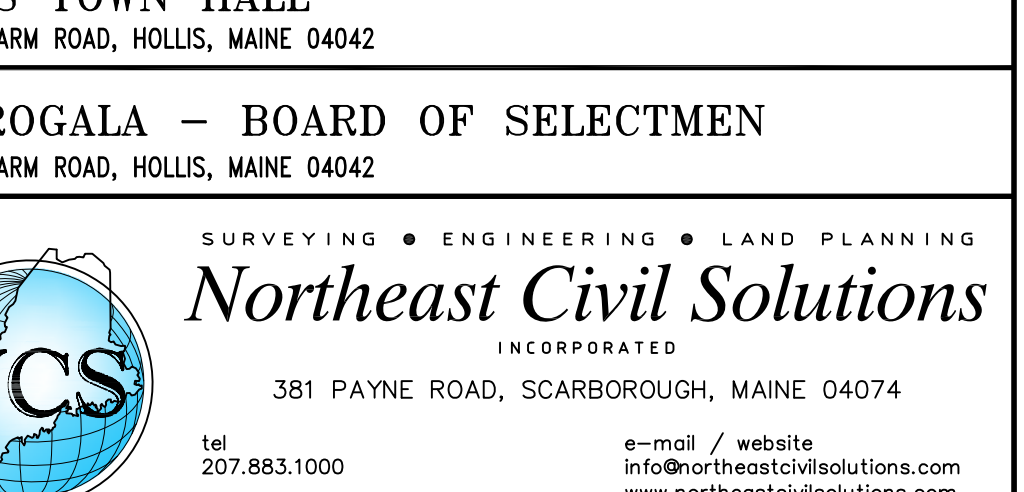
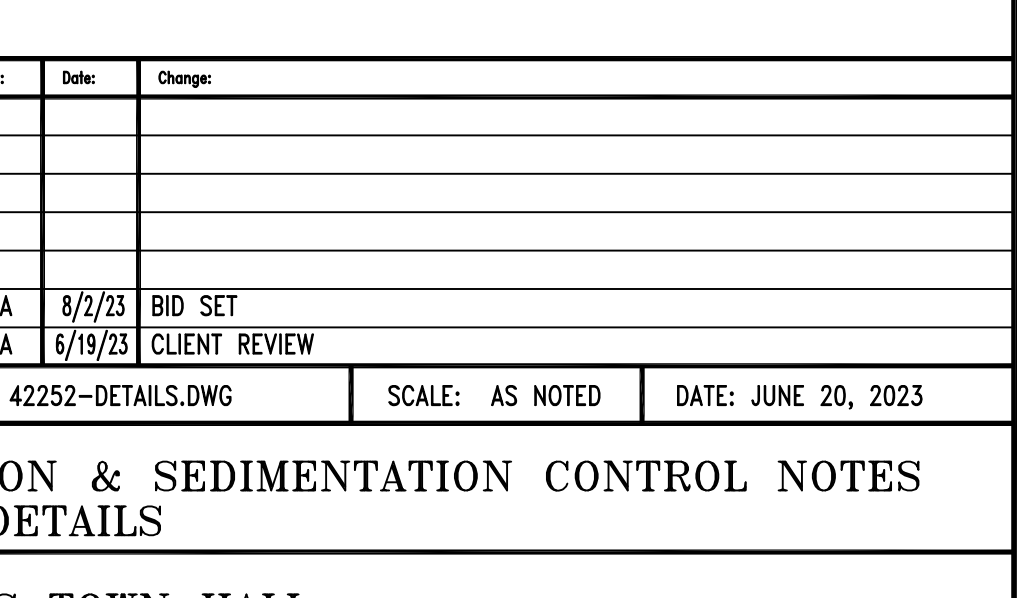
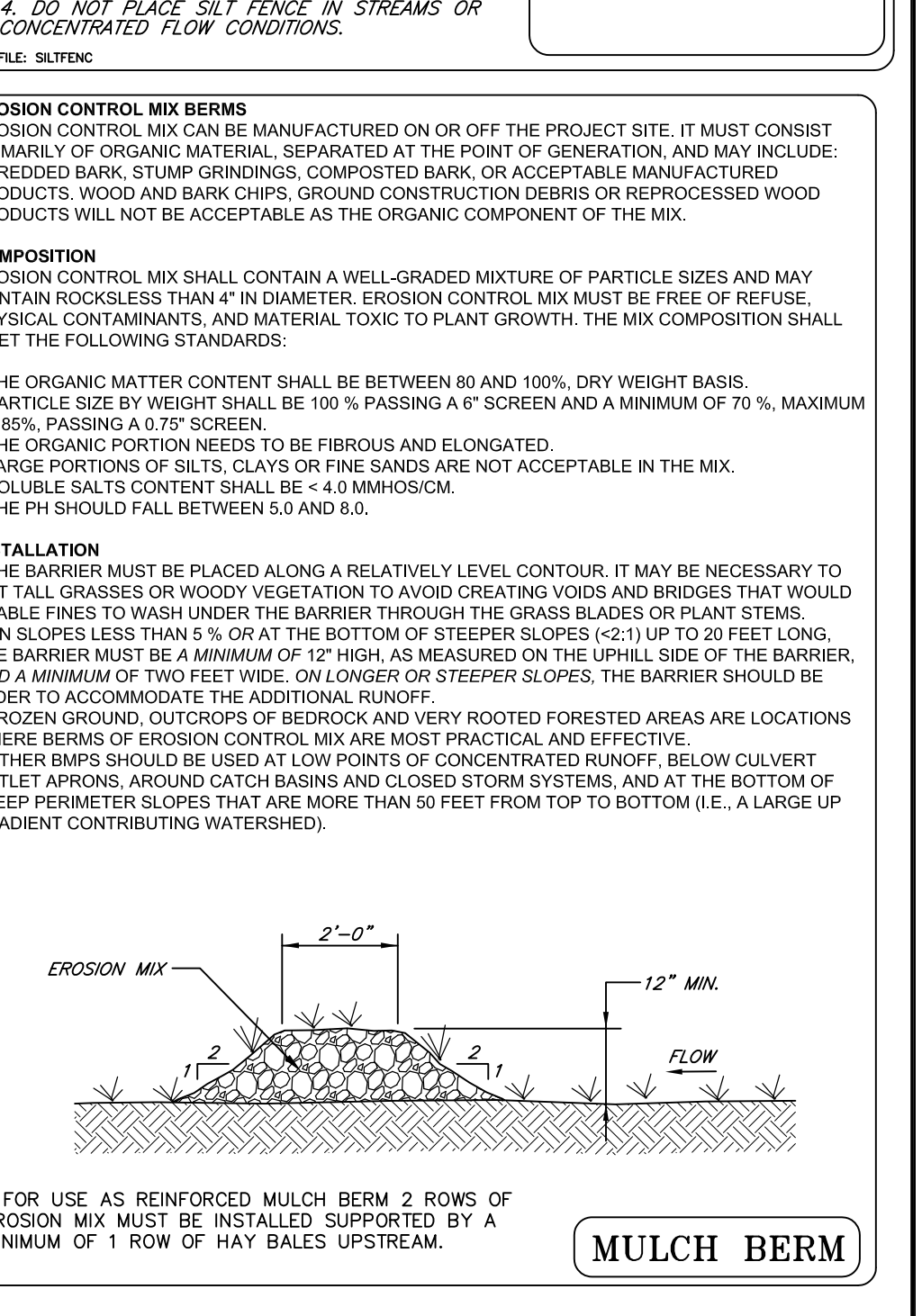
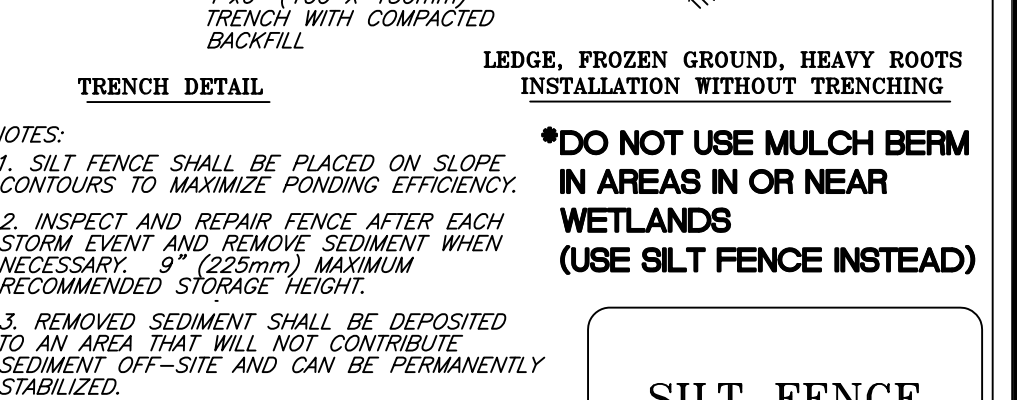
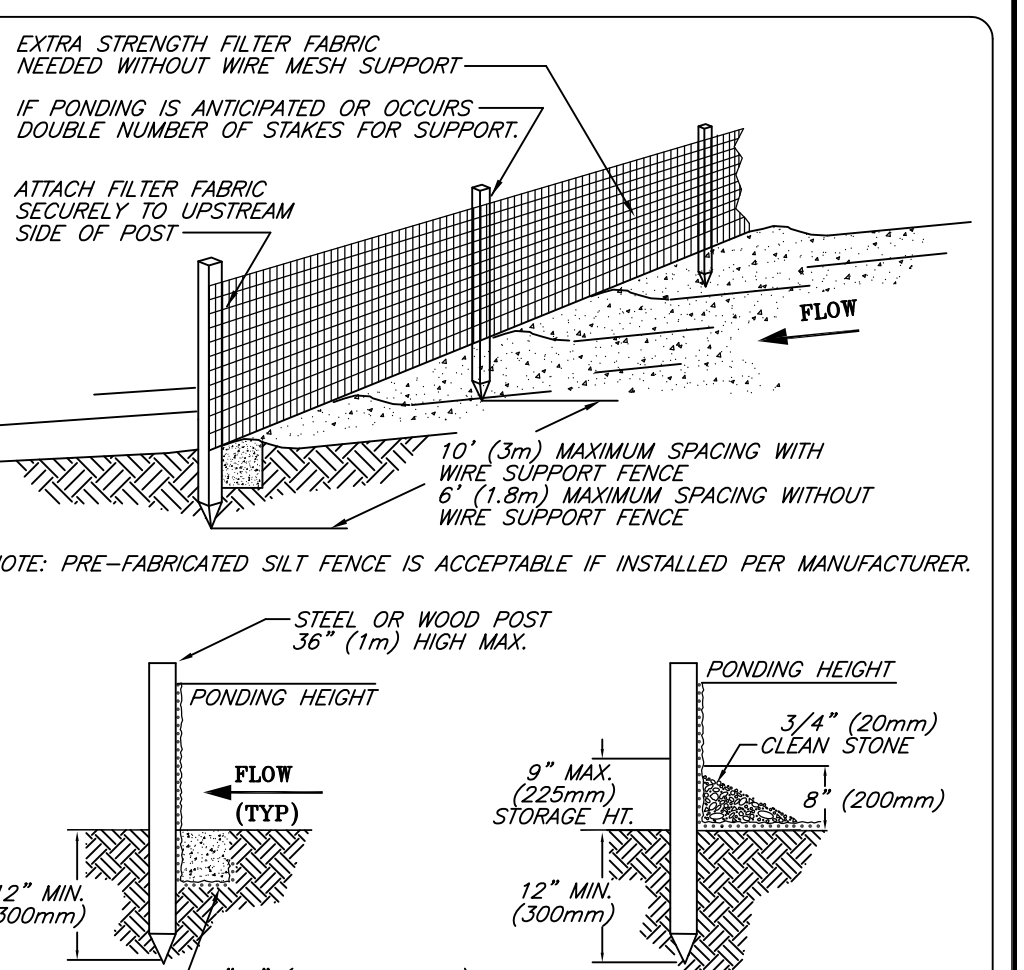
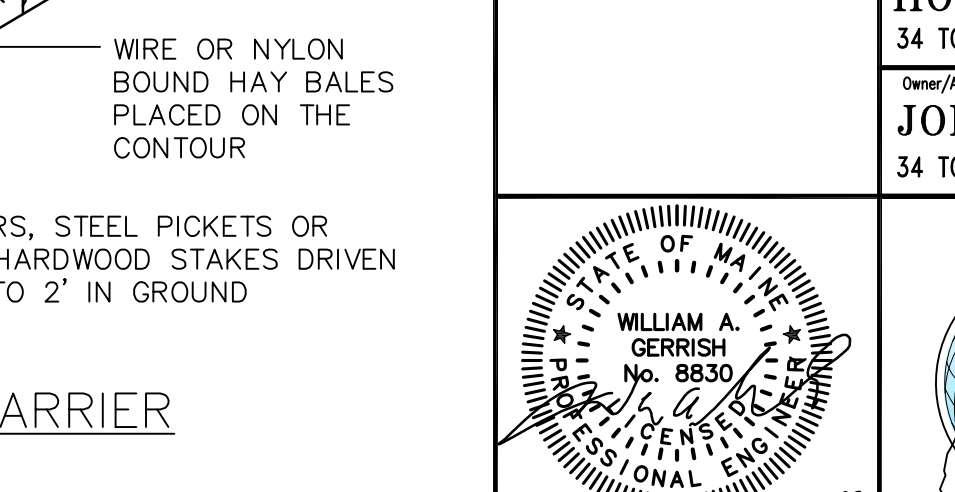
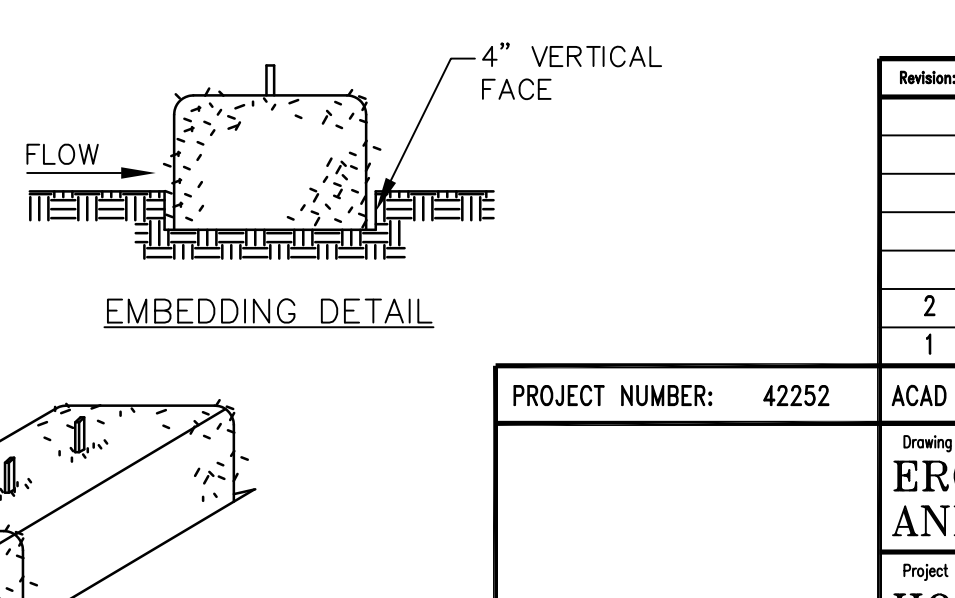
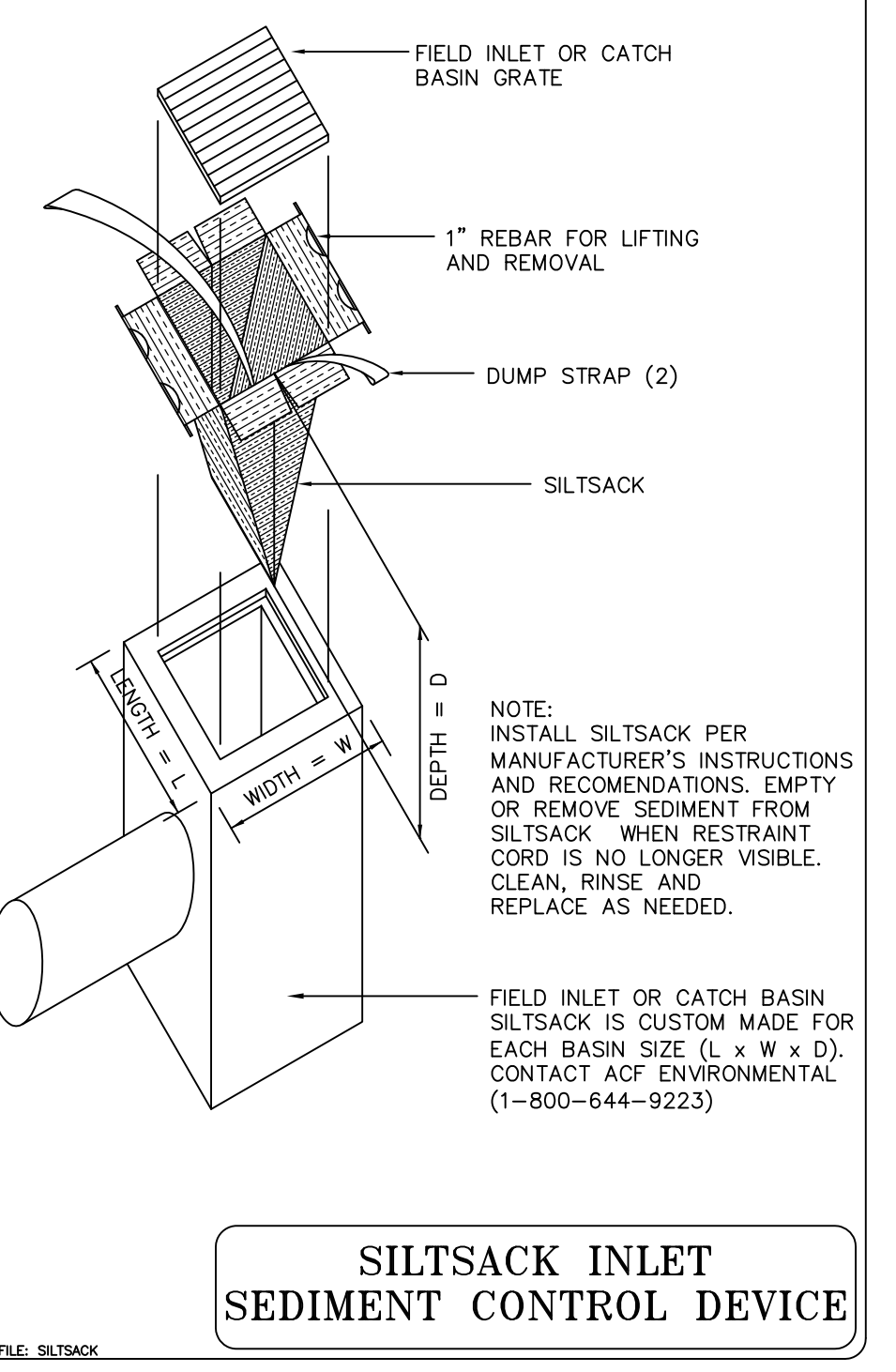
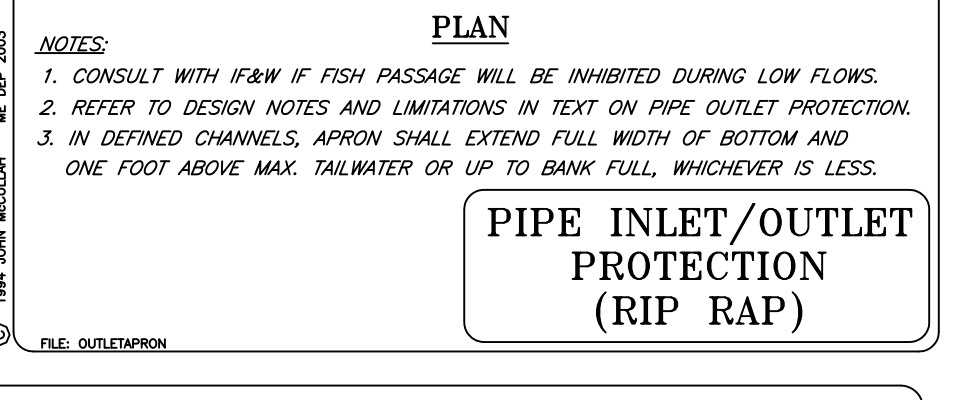
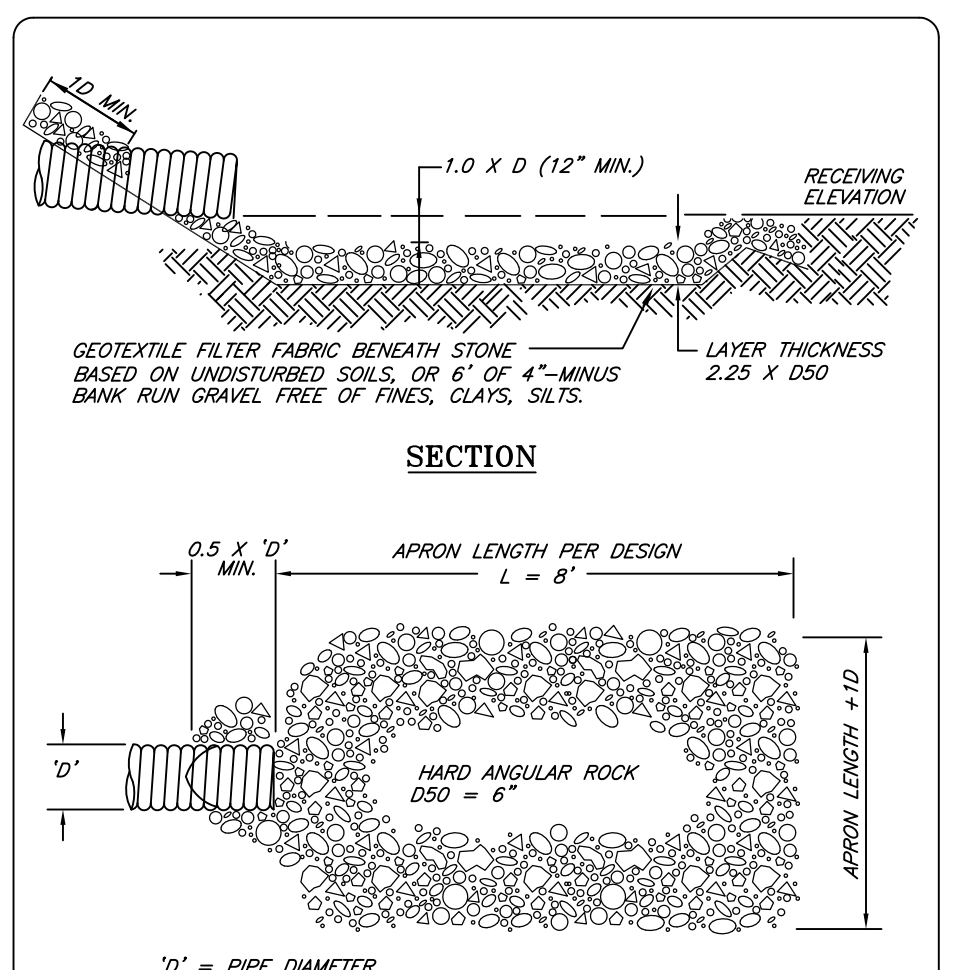
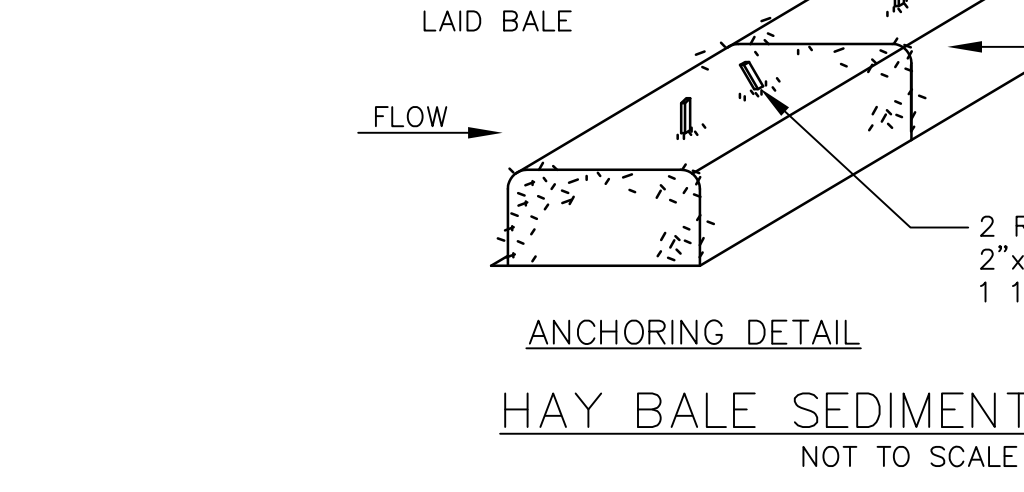
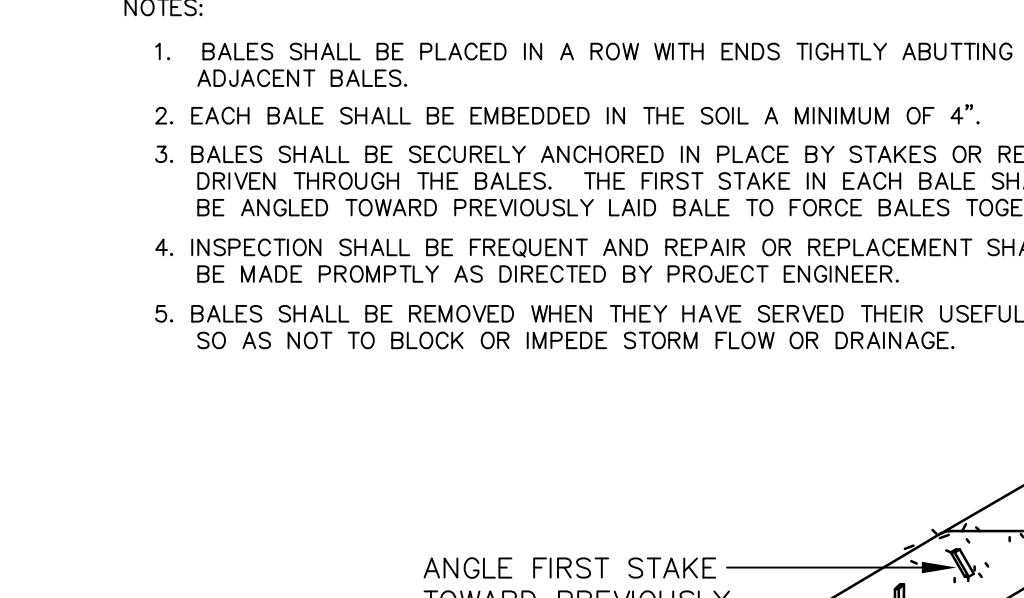
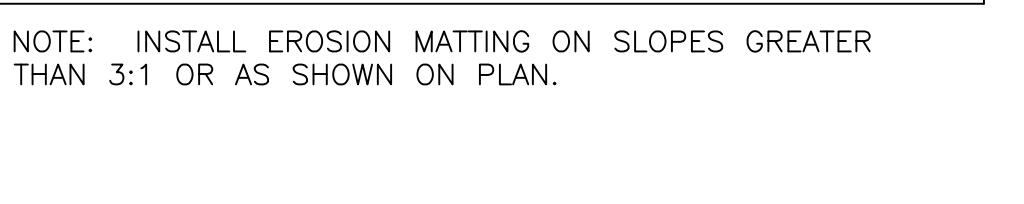
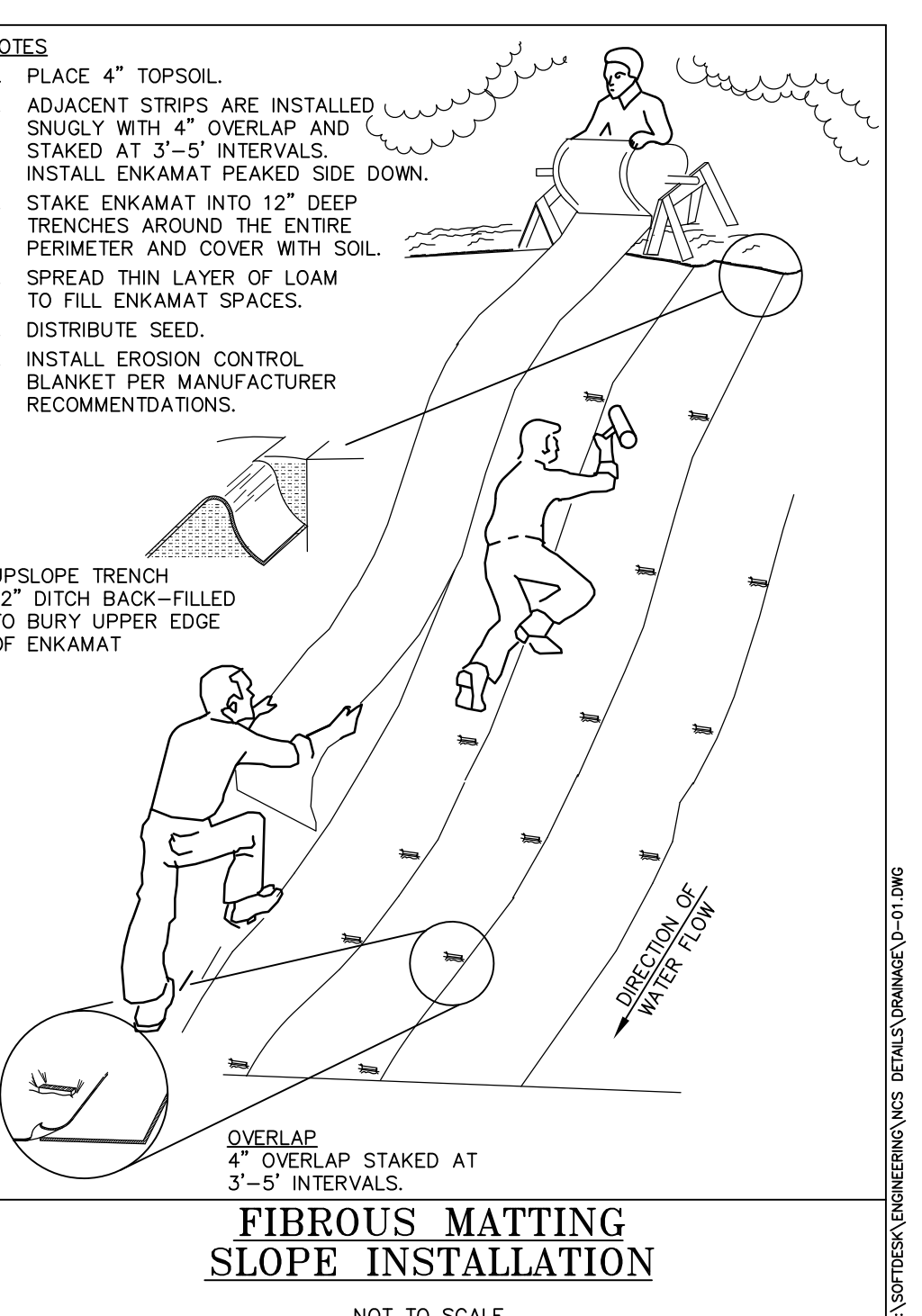
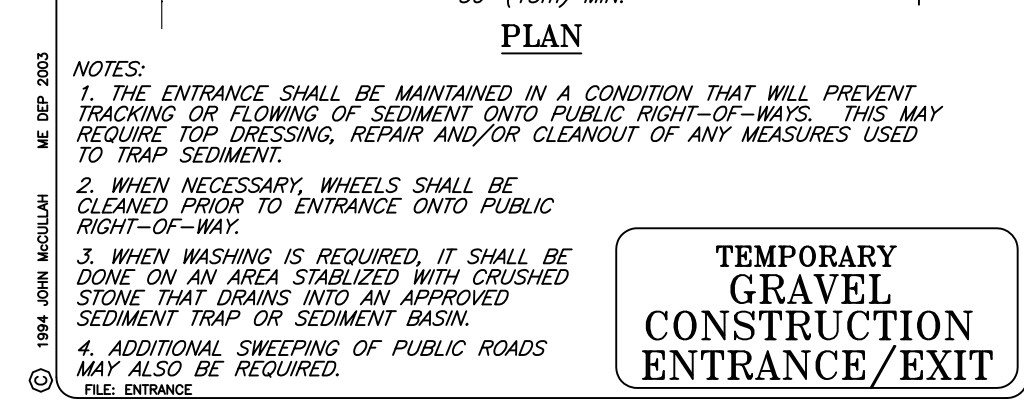
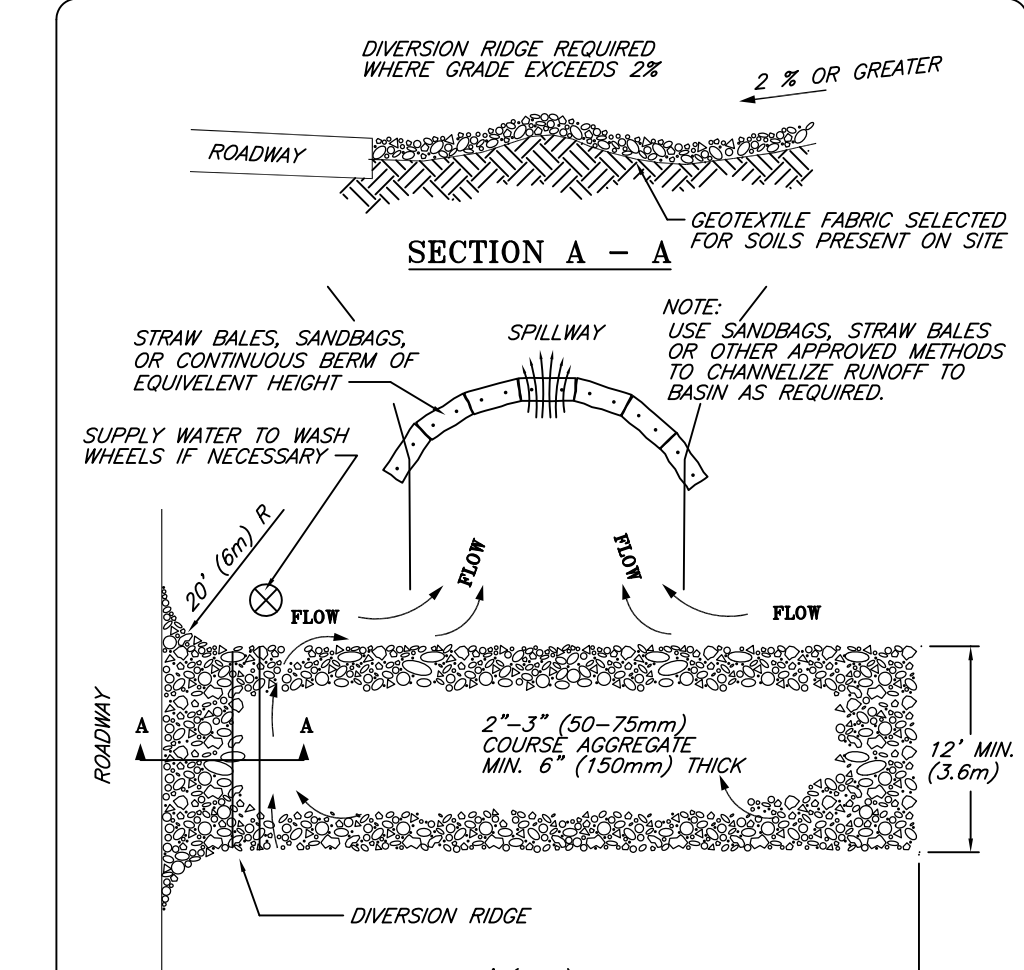
- 3.6.1 DISCHARGES FROM FRIREFIGHTING ACTIVITY;
- 3.6.2 FIRE HYDRANT FLUSHINGS;
- 3.6.3 VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF THE VEHICLE (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED);
- 3.6.4 DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS AND APPENDIX (G)(3);
- 3.6.5 ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS;
- 3.6.6 PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED;
- 3.6.7 UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
- 3.6.8 UNCONTAMINATED GROUNDWATER OR SPRING WATER;
- 3.6.9 FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED;
- 3.6.10 UNCONTAMINATED EXCAVATION DEWATERING (SEE REQUIREMENTS IN APPENDIX (C)(5)).
- 3.6.11 POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND LANDSCAPE IRRIGATION.
- 3.6.12

**3.7 UNAUTHORIZED NON-STORMWATER DISCHARGES.** THE DEPARTMENT'S APPROVAL UNDER THIS CHAPTER DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE DISCHARGES IN COMPLIANCE WITH APPENDIX (G). SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:

- 3.7.1 WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS;
- 3.7.2 FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
- 3.7.3 SOAPS, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND
- 3.7.4 TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.

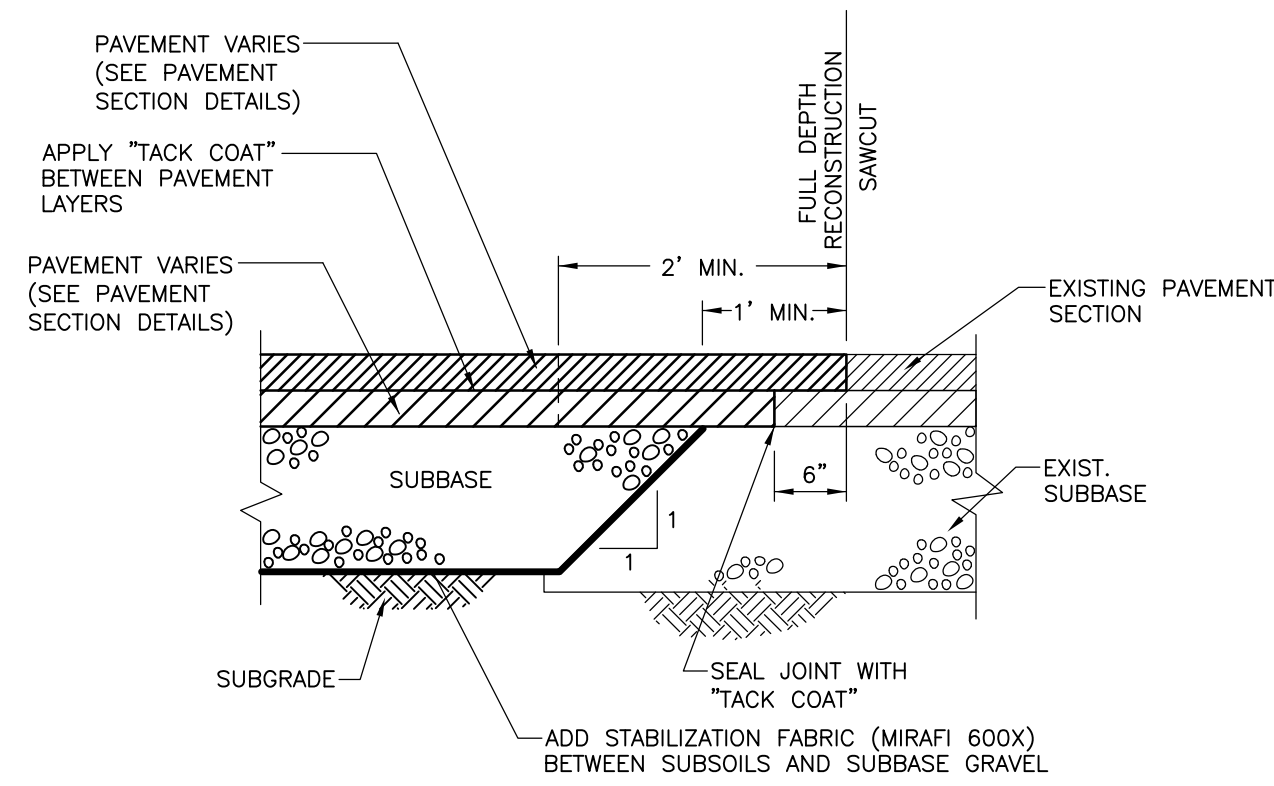
**BASIC STANDARDS – EROSION CONTROL MEASURES:**  
MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE APPLICANT WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON THE SITE'S TOPOGRAPHY AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION. VEGETATION MUST BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR THE EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE.

**GENERAL NOTE:**  
ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET MDOT ITEM 656.

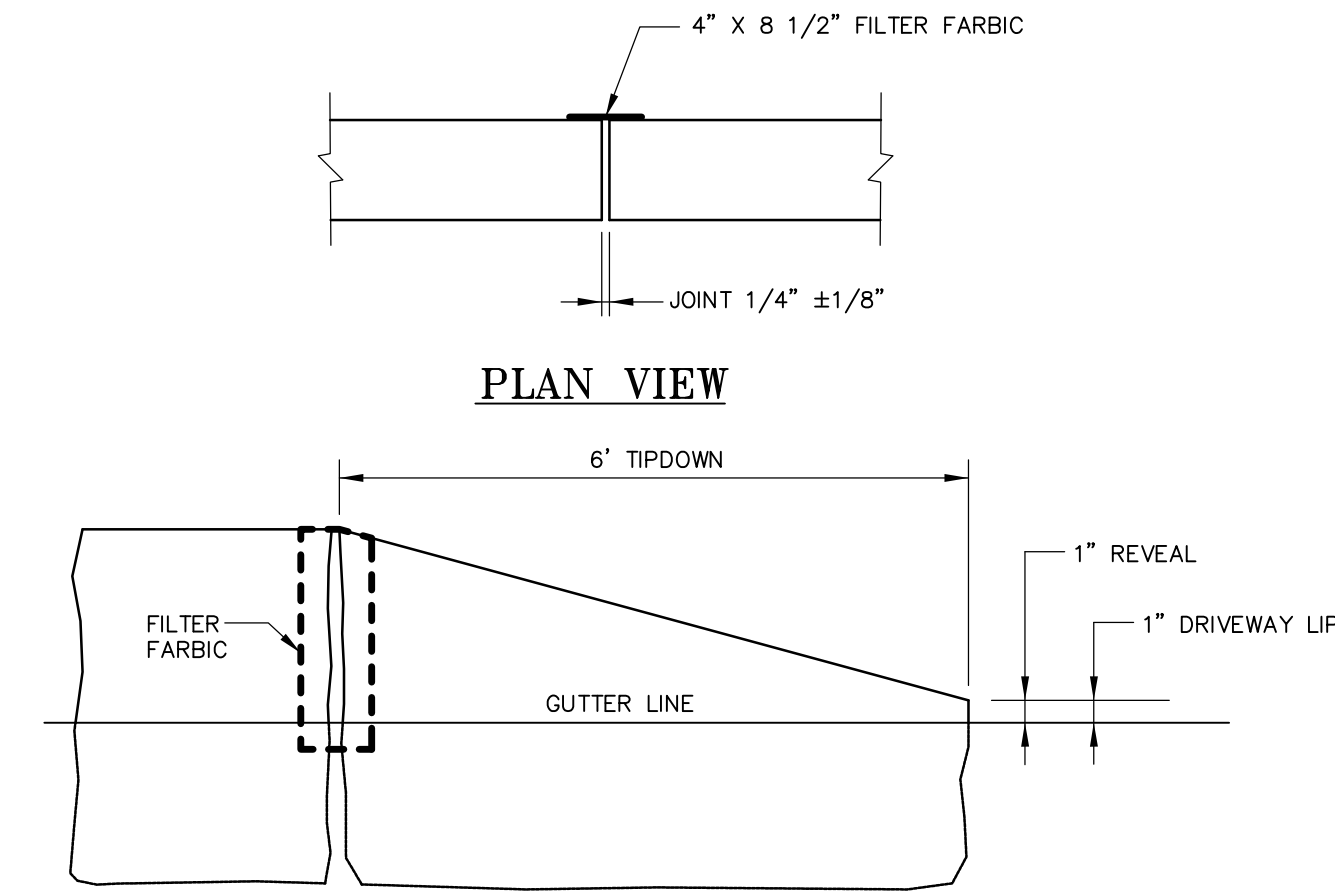


Revision:	By:	Date:	Change:
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

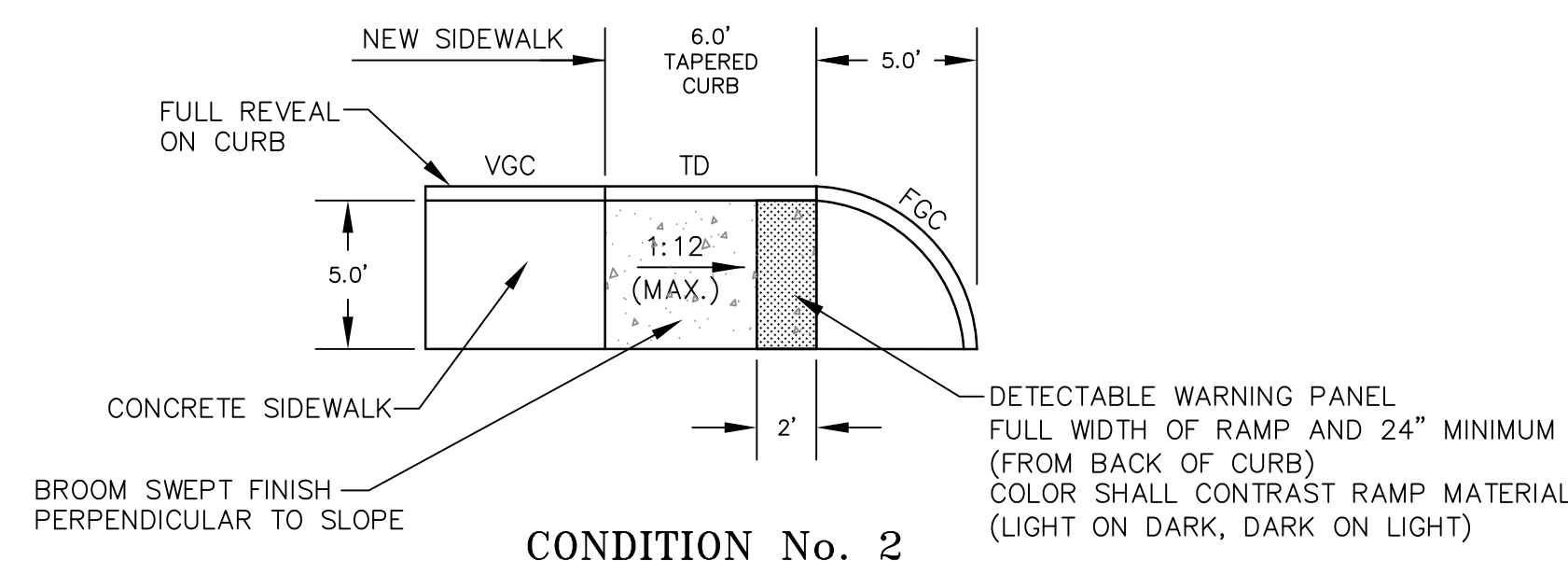
PROJECT NUMBER: 42252 ACAD FILE: 42252-DETAILS.DWG SCALE: AS NOTED DATE: JUNE 20, 2023



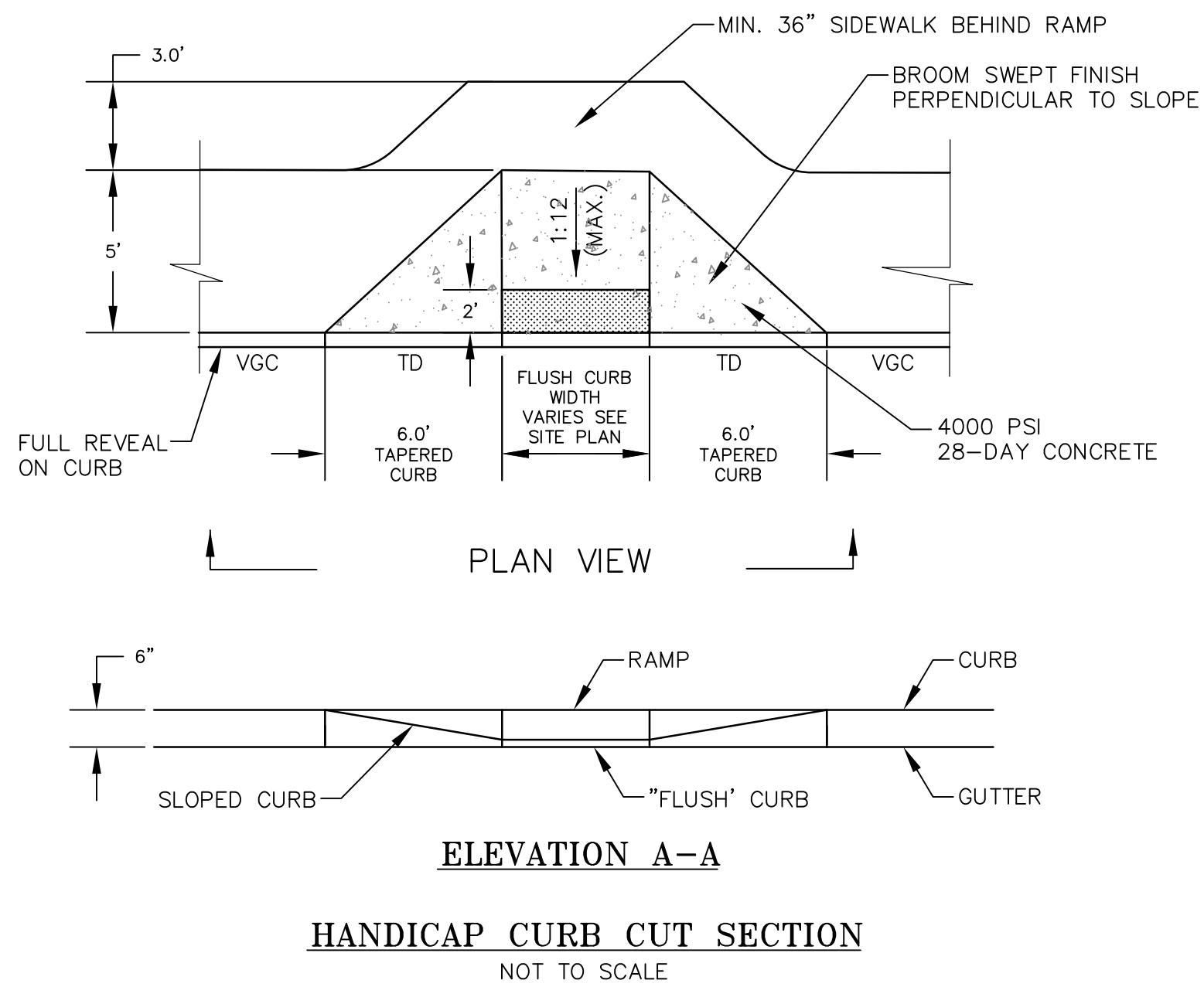
NOTE: PER MDOT ITEM 403  
**SAWCUT & PAVEMENT MATCH DETAIL**  
 N.T.S.



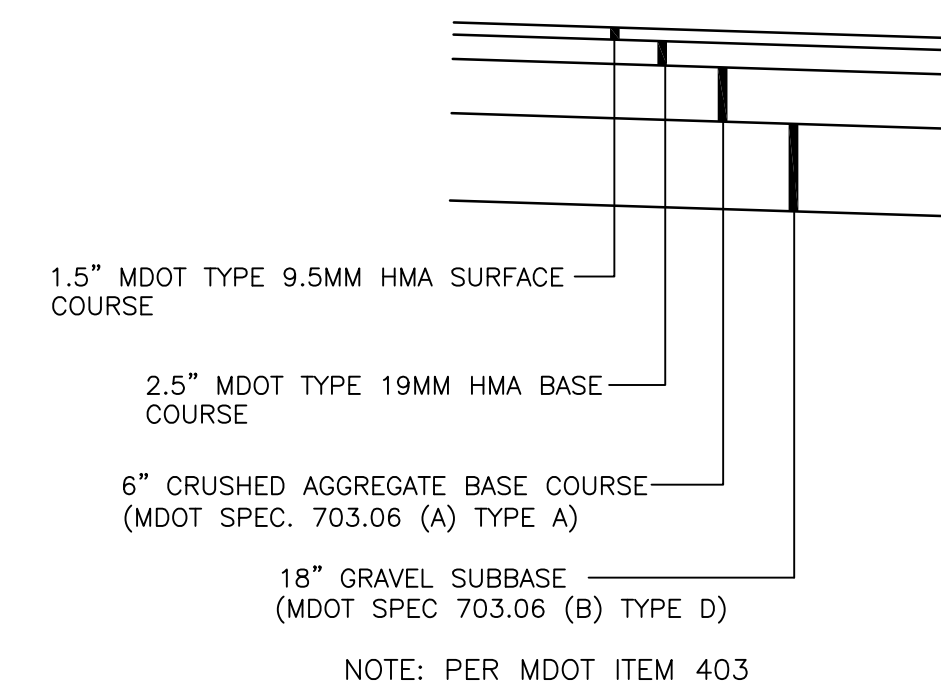
**TYP. TIPDOWN CURB INSTALLATION**  
 NOT TO SCALE



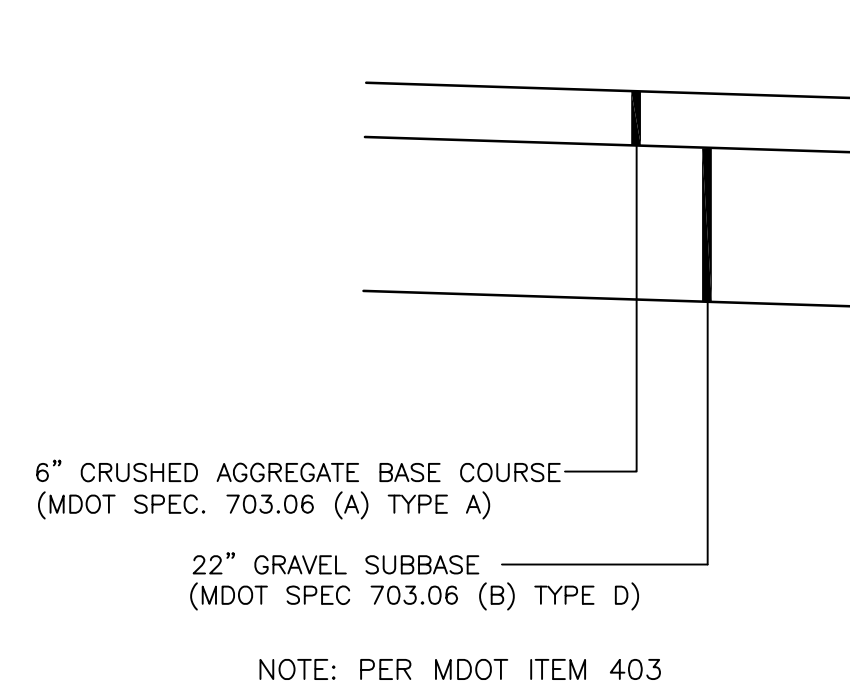
**CONDITION No. 2**



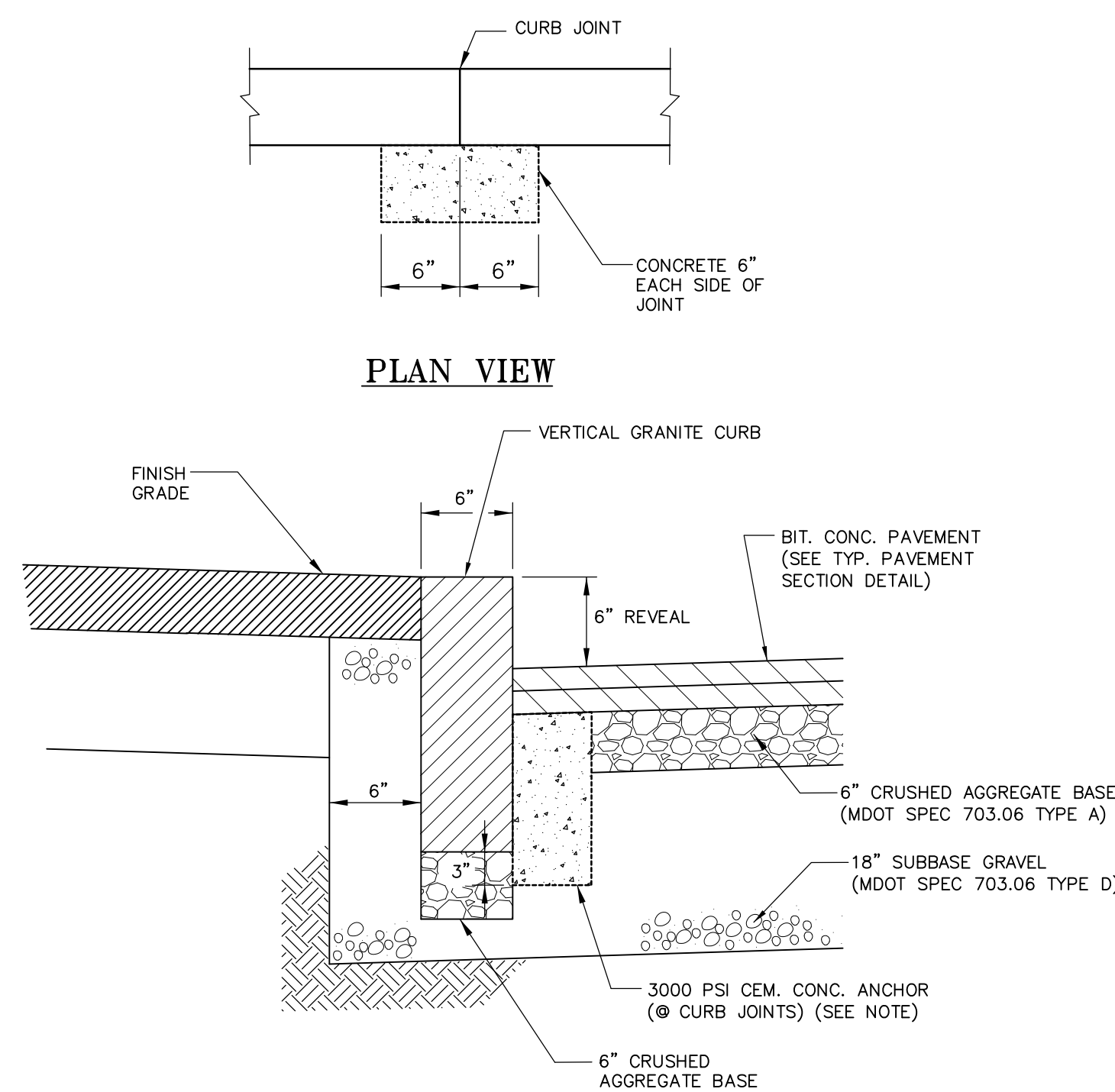
**ELEVATION A-A**  
**HANDICAP CURB CUT SECTION**  
 NOT TO SCALE



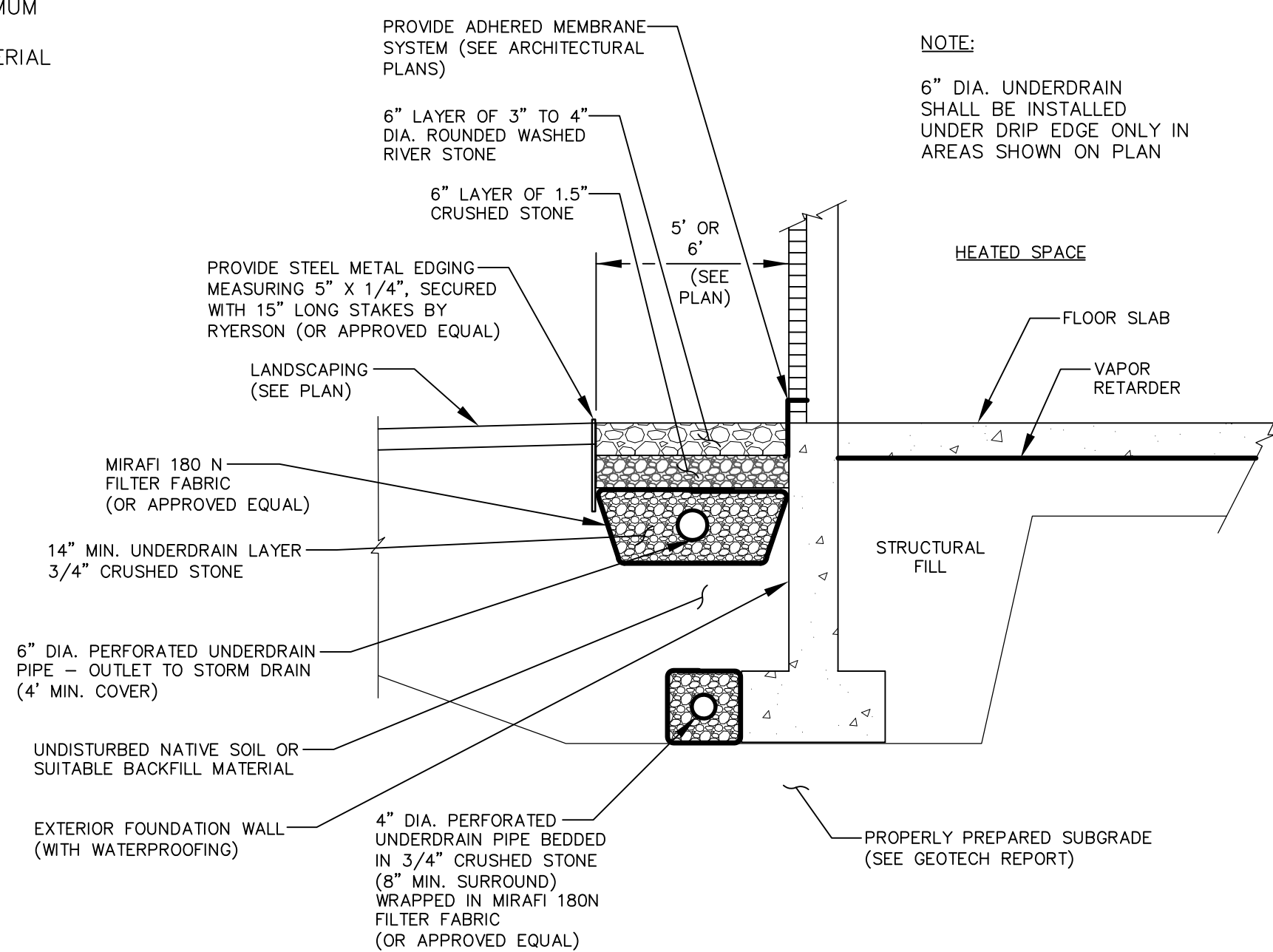
**TYP. PAVEMENT SECTION**  
**(FULL DEPTH CONSTRUCTION)**  
 NOT TO SCALE



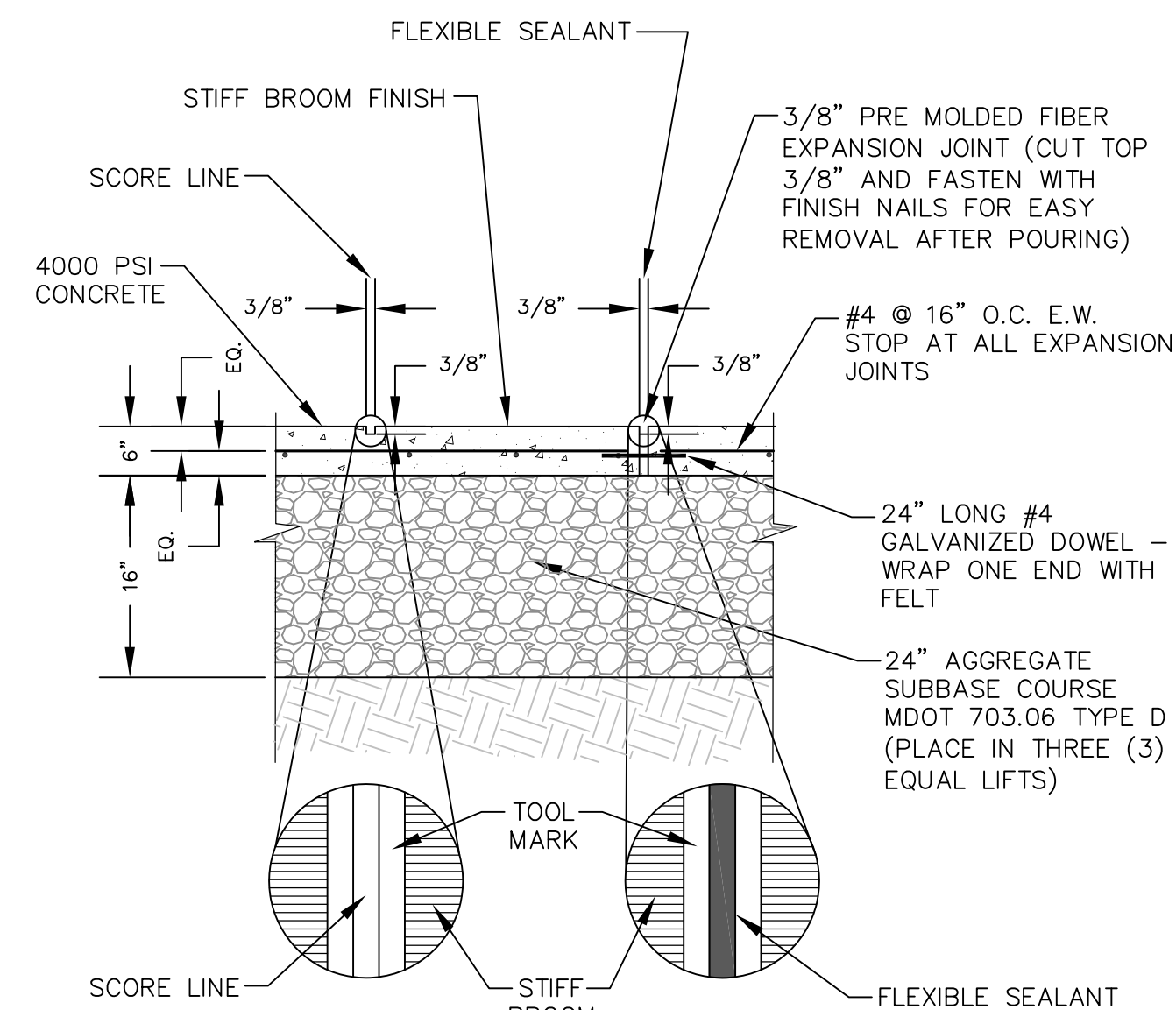
**TYP. GRAVEL SECTION**  
**(FULL DEPTH CONSTRUCTION)**  
 NOT TO SCALE



**VERTICAL GRANITE CURB DETAIL**  
 N.T.S.

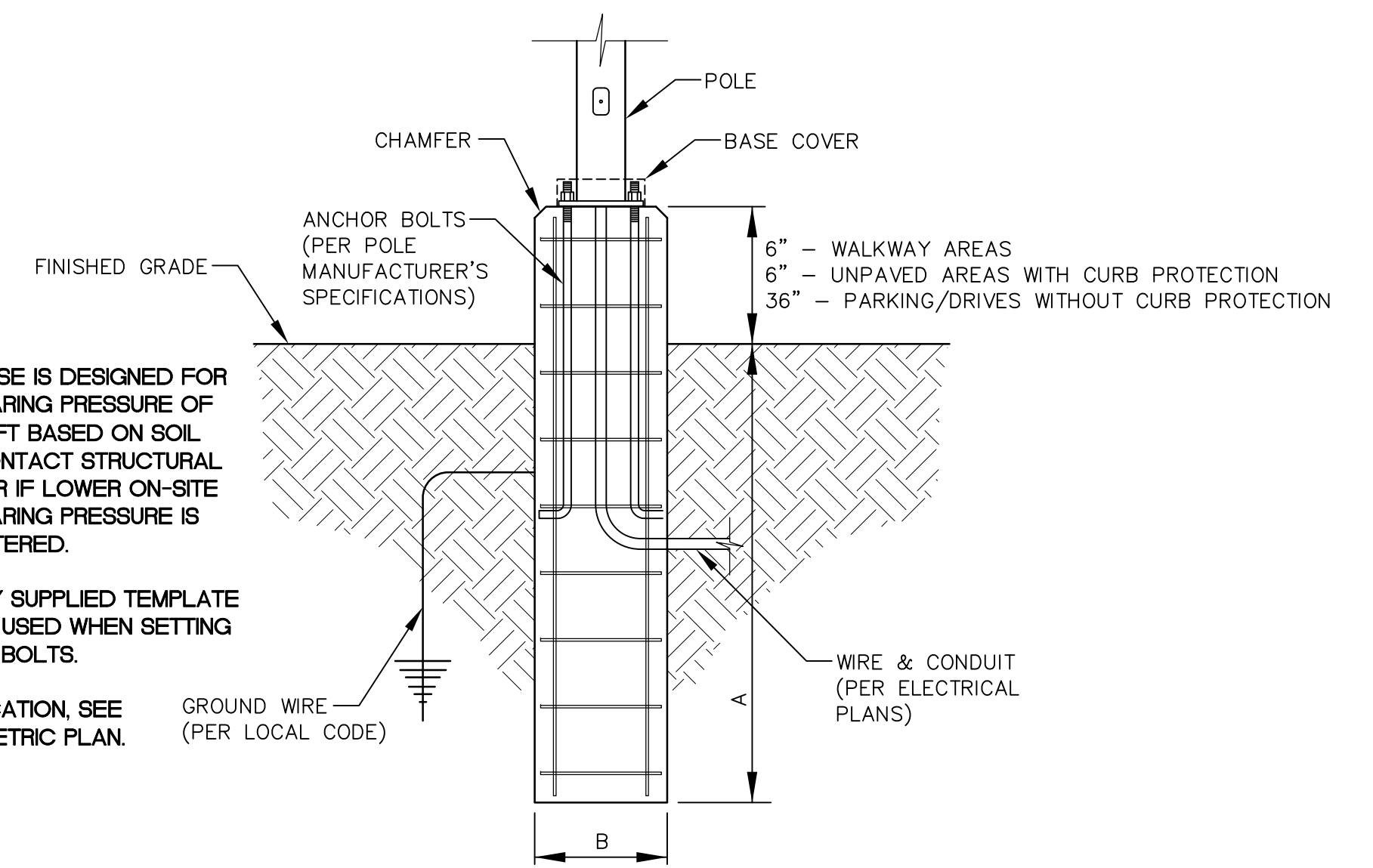


**FOUNDATION DRAIN DETAIL AT**  
**DRIP EDGE WITH UNDERDRAIN**  
 NOT TO SCALE



**CONCRETE SIDEWALK DETAIL**  
 NOT TO SCALE

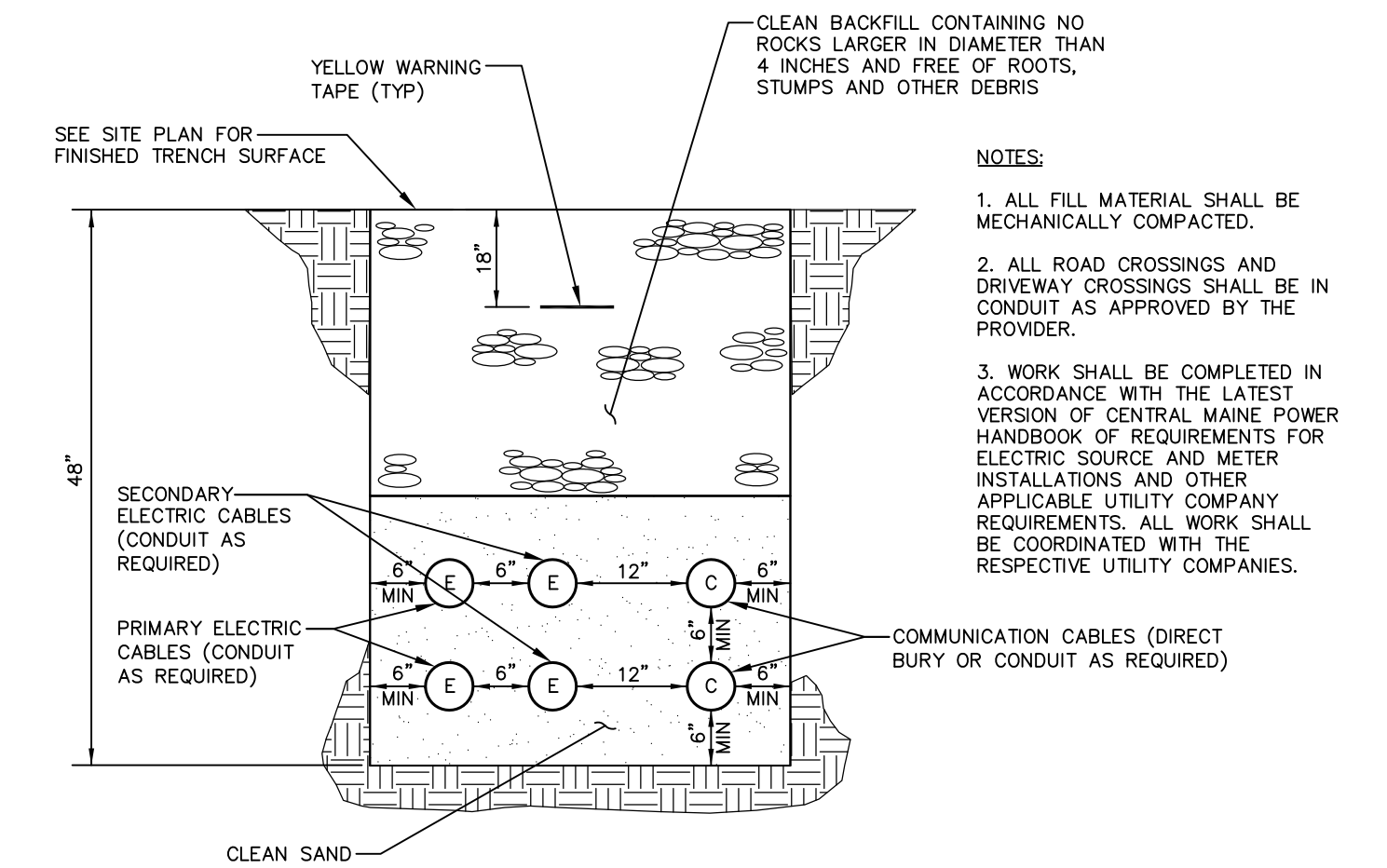
- NOTES:**
- INSTALL SAMPLE OF CONCRETE WALK PAVEMENT FOR ARCHITECT'S APPROVAL PRIOR TO FINAL INSTALLATION.
  - SEE PLAN DRAWING FOR SCORING PATTERNS AND EXPANSION JOINT LOCATIONS.
- CONCRETE NOTES:**
- ALL DIMENSIONS ARE IN FEET UNLESS STATED OTHERWISE.
  - ALL SITE CONCRETE WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE DRAWINGS AND MAINE DOT STANDARD SPECIFICATIONS.
  - CONCRETE SHALL HAVE A MINIMUM OF COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
  - SLUMP TEST SHALL BE TAKEN AT THE POINT OF DISCHARGE FROM EACH LOAD OF CONCRETE. SLUMP DISCHARGE SHALL BE A MINIMUM OF 2 INCHES AND 4" MAXIMUM.
  - ALL CONCRETE SIDEWALKS SHALL HAVE A BROOM FINISH.
  - ALL CONCRETE SIDEWALKS SHALL HAVE A VAPOR BARRIER AND EXPANSION JOINTS, CONFORMING TO THE SPECIFICATIONS.
  - SIDEWALK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWING AND SPECIFICATIONS.
  - SIDEWALK CROSSING STREETS AND DRIVEWAYS SHALL HAVE A TACTILE SURFACE FOR A MINIMUM OF 2 FT ADJACENT TO EACH CROSSING.
  - CURBING SHALL BE VERTICAL GRANITE, AS INDICATED ON THE DRAWINGS, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND MAINE DOT STANDARD SPECIFICATIONS.
  - REFER TO DRAWINGS FOR GENERAL LOCATION, TYPE, AND EXTENT OF CURBING.
- REINFORCING STEEL NOTES:**
- ALL REINFORCING STEEL BARS SHALL BE NEW BILLET STEEL, GRADE 60 CONFORMING TO ASTM A36.



- NOTES:**
- POLE BASE IS DESIGNED FOR SOIL BEARING PRESSURE OF 100 PSF/FT BASED ON SOIL TYPE. CONTACT STRUCTURAL ENGINEER IF LOWER ON-SITE SOIL BEARING PRESSURE IS ENCOUNTERED.
  - FACTORY SUPPLIED TEMPLATE MUST BE USED WHEN SETTING ANCHOR BOLTS.
  - FOR LOCATION, SEE PHOTOMETRIC PLAN.

A	EMBEDMENT DEPTH (BELOW GRADE)	4'-6"
B	CONCRETE DIAMETER	30"

**LIGHT POLE BASE**  
 N.T.S.



**COMMON TRENCH DETAIL**  
**ELECTRIC/TELEPHONE/CABLE**  
 NOT TO SCALE

Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

PROJECT NUMBER: 42252 ACAD FILE: 42252-DETAILS.DWG SCALE: AS NOTED DATE: JUNE 20, 2023

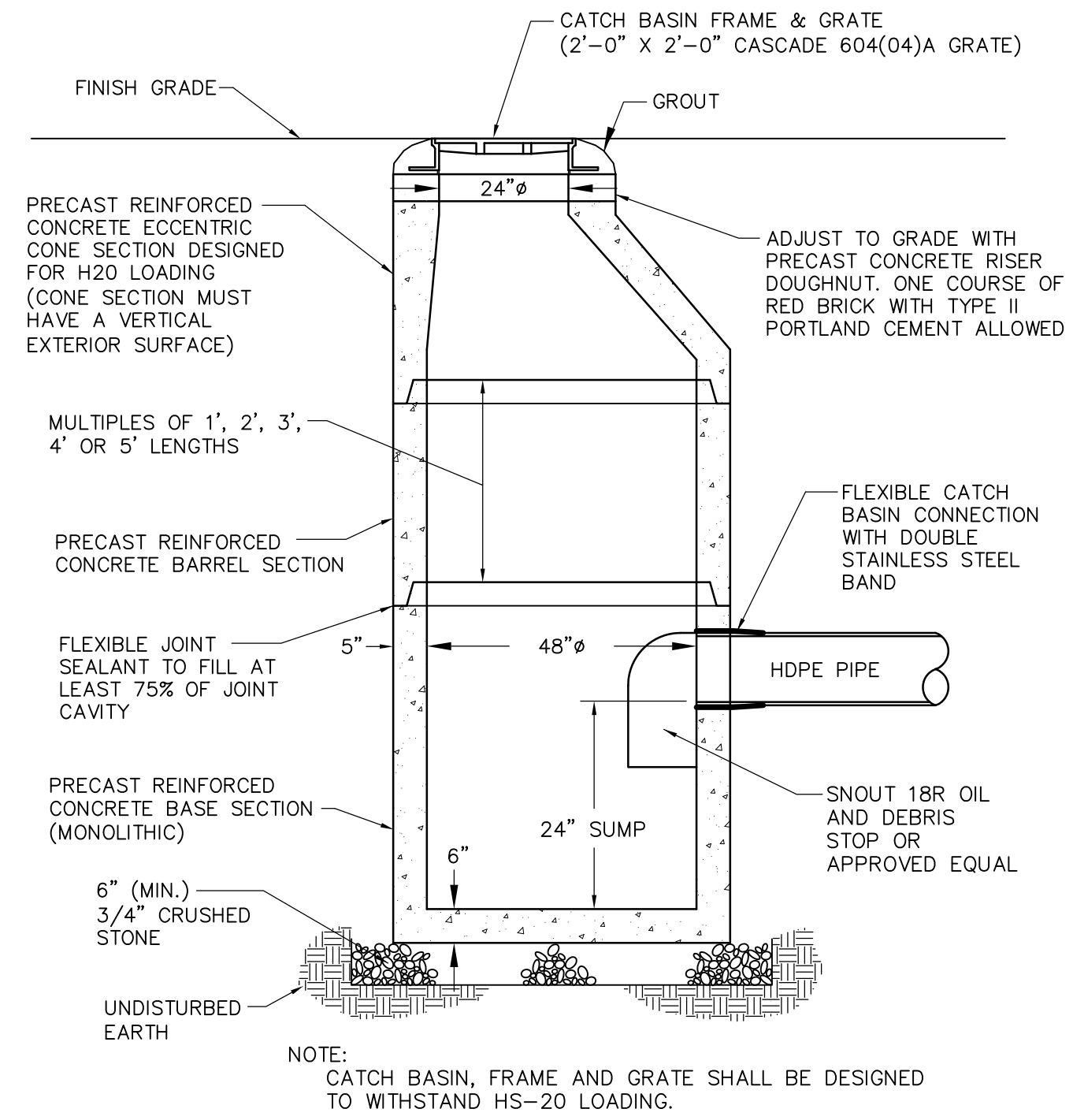
Drawing Name:  
**CONSTRUCTION DETAILS - SHEET 1**

Project Name:  
**HOLLIS TOWN HALL**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042

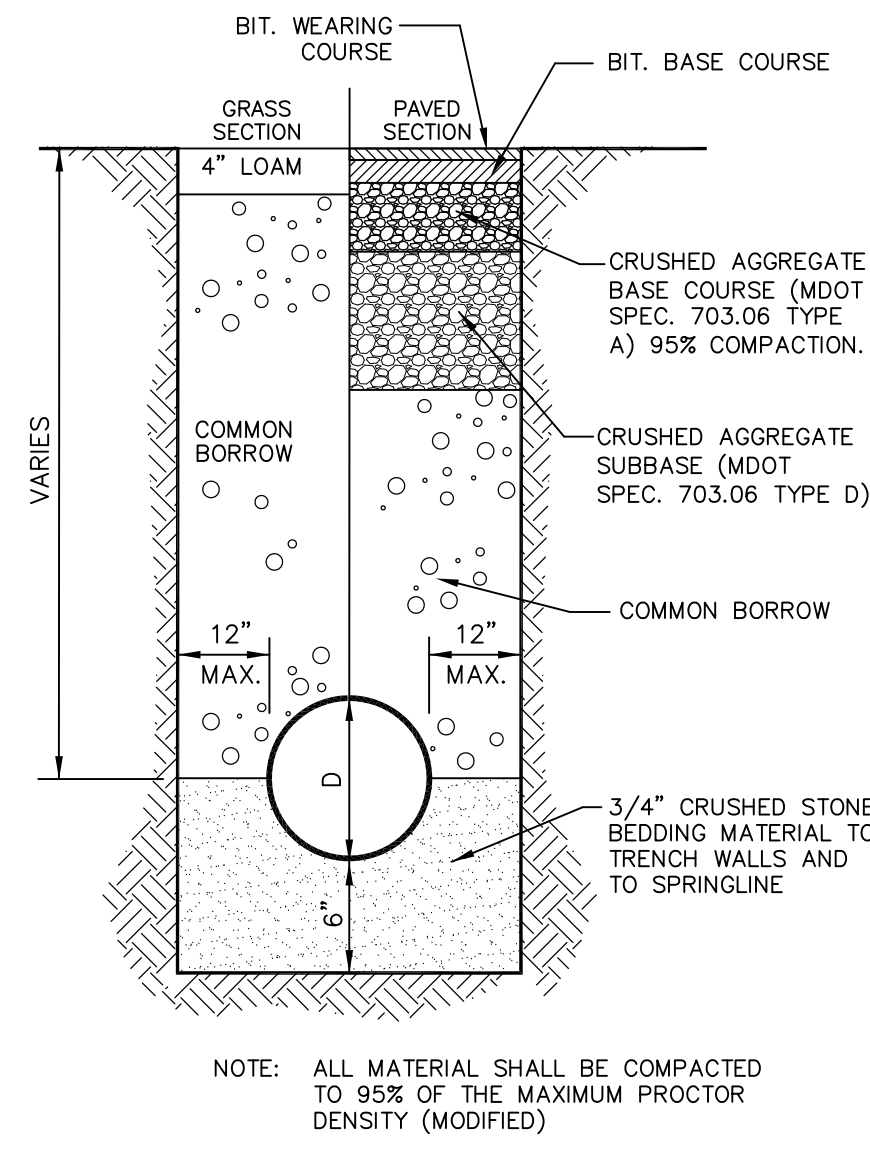
Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
 34 TOWN FARM ROAD, HOLLIS, MAINE 04042

**William A. Gerrish**  
 No. 8830  
 PROFESSIONAL ENGINEER  
 8-1-23

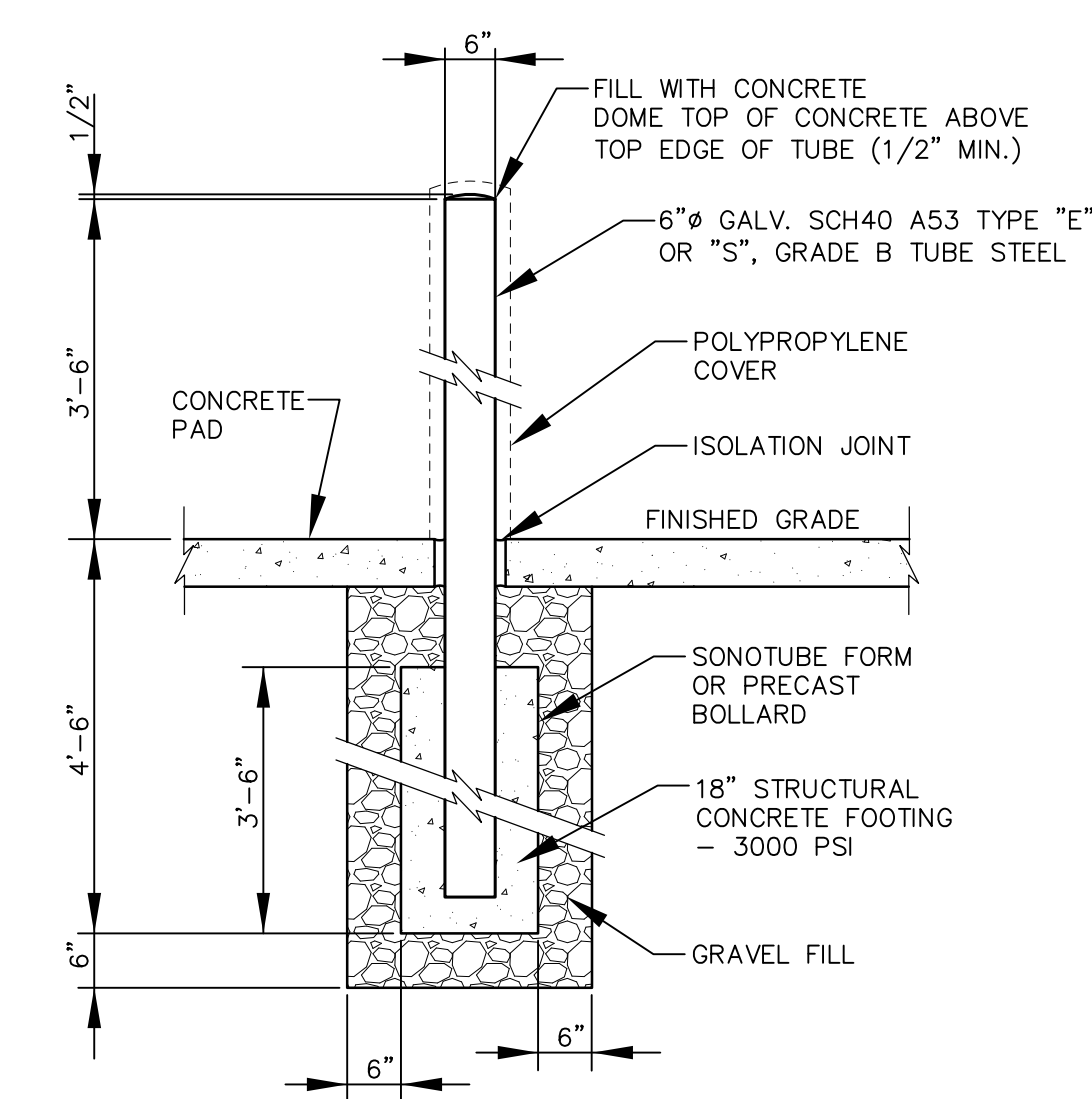
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**Northeast Civil Solutions**  
 INCORPORATED  
 381 PAYNE ROAD, SCARBOROUGH, MAINE 04074  
 Tel: 207.883.1000  
 e-mail / website: info@northeastcivilsolutions.com www.northeastcivilsolutions.com



PER MDOT ITEM 604.04  
**PRECAST CONCRETE CATCH BASIN DETAIL**  
N.T.S.

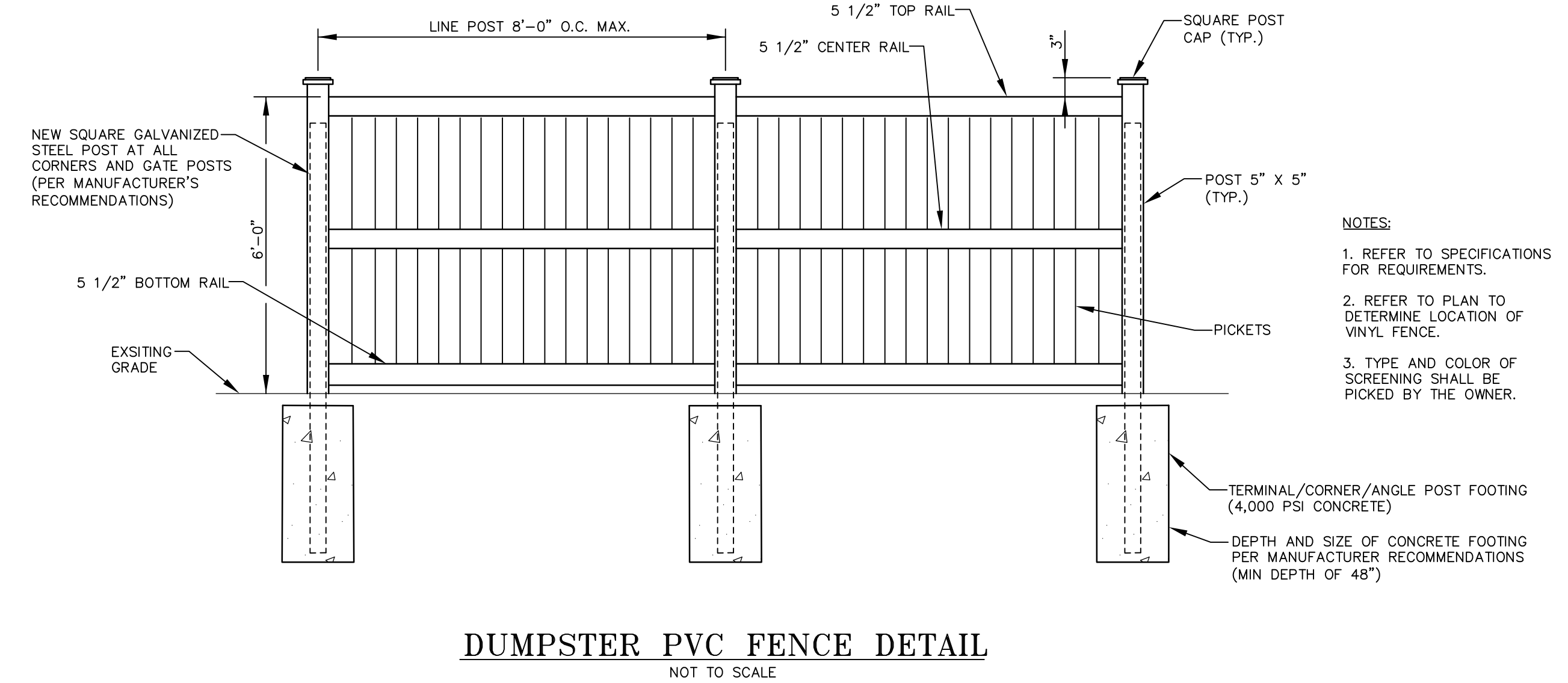


**TYPICAL STORMWATER TRENCH SECTION**  
NOT TO SCALE

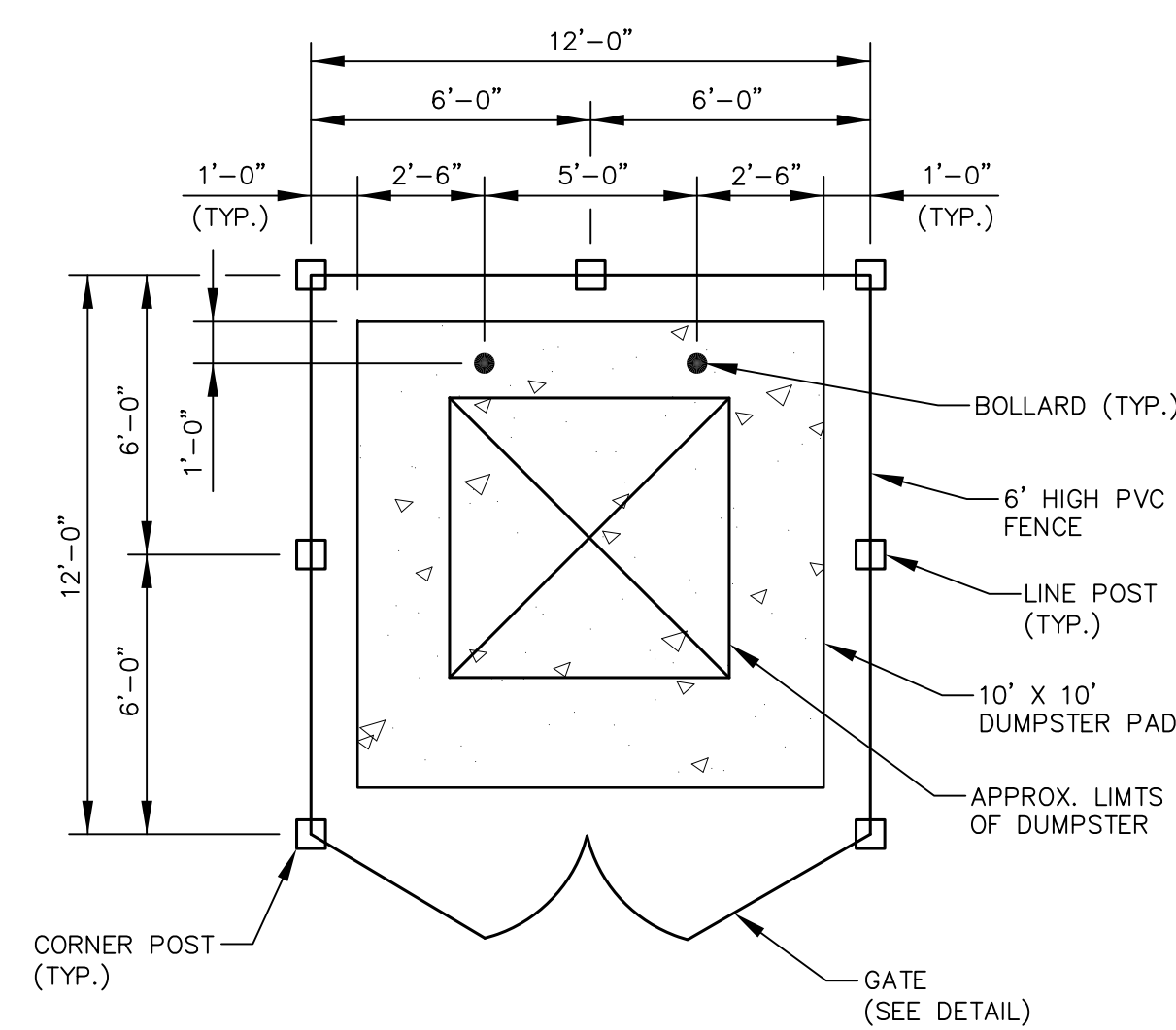


- NOTES:**
- PLACE BOLLARDS AS SHOWN IN PLAN VIEW AND/OR ACCESSIBLE PARKING LAYOUT DETAIL.
  - BOLLARDS PLACED IN/AT DUMPSTER ENCLOSURE:
    - INSIDE: 6" TO CENTERLINE FROM FENCE SIDES (2 BOLLARDS); 1.0' TO CENTERLINE FROM BACK OF FENCE
    - OUTSIDE: AS SHOWN AT DETAIL (1 PER CORNER AT FRONT)

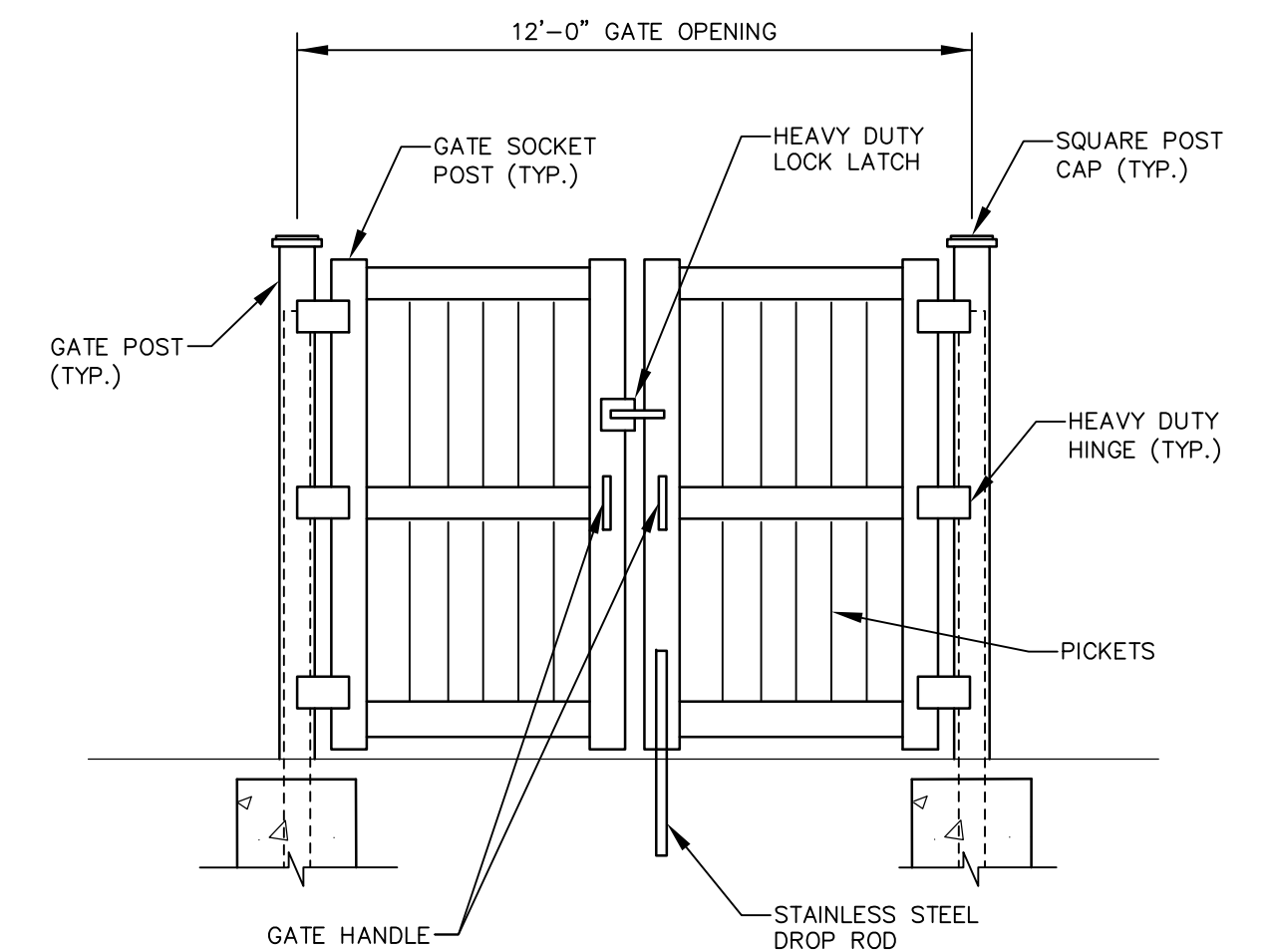
**DUMPSTER SLAB BOLLARD DETAIL**  
N.T.S.



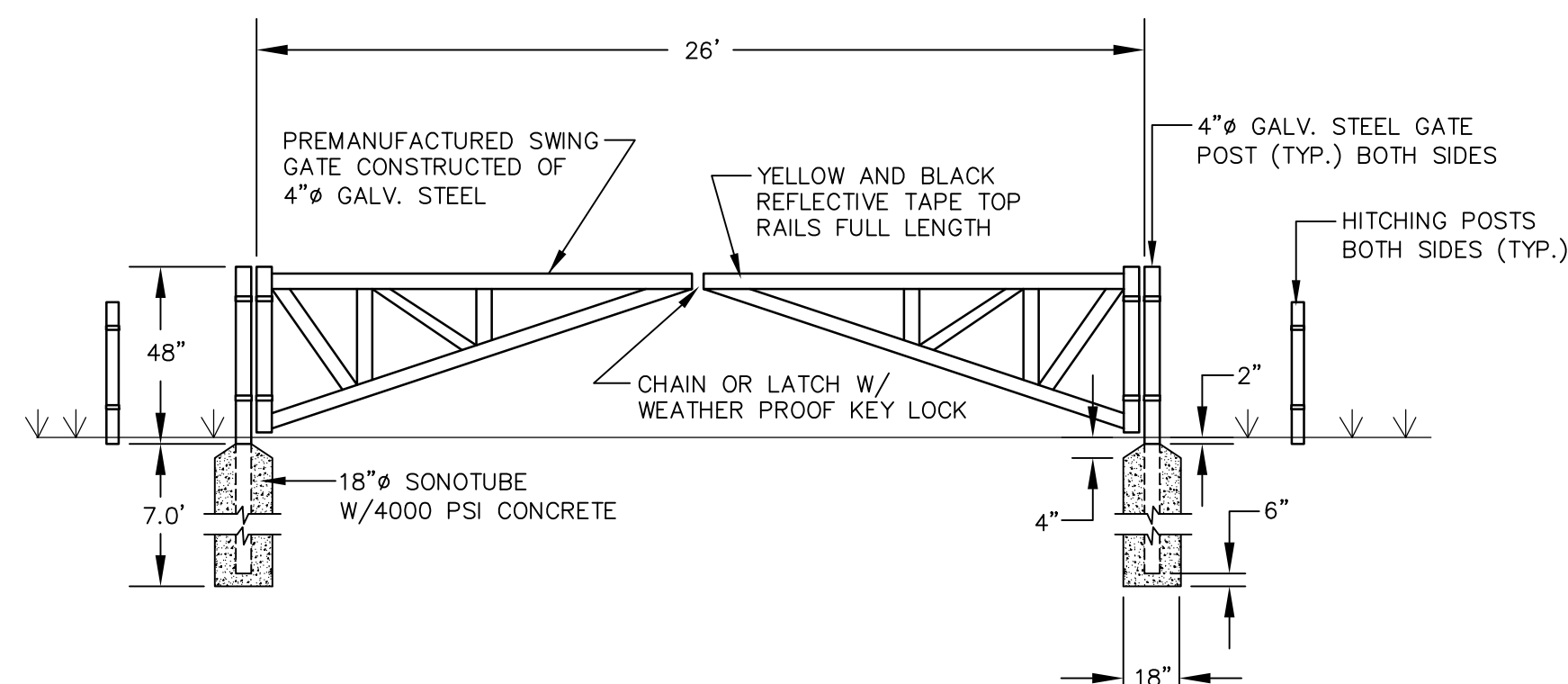
**DUMPSTER PVC FENCE DETAIL**  
NOT TO SCALE



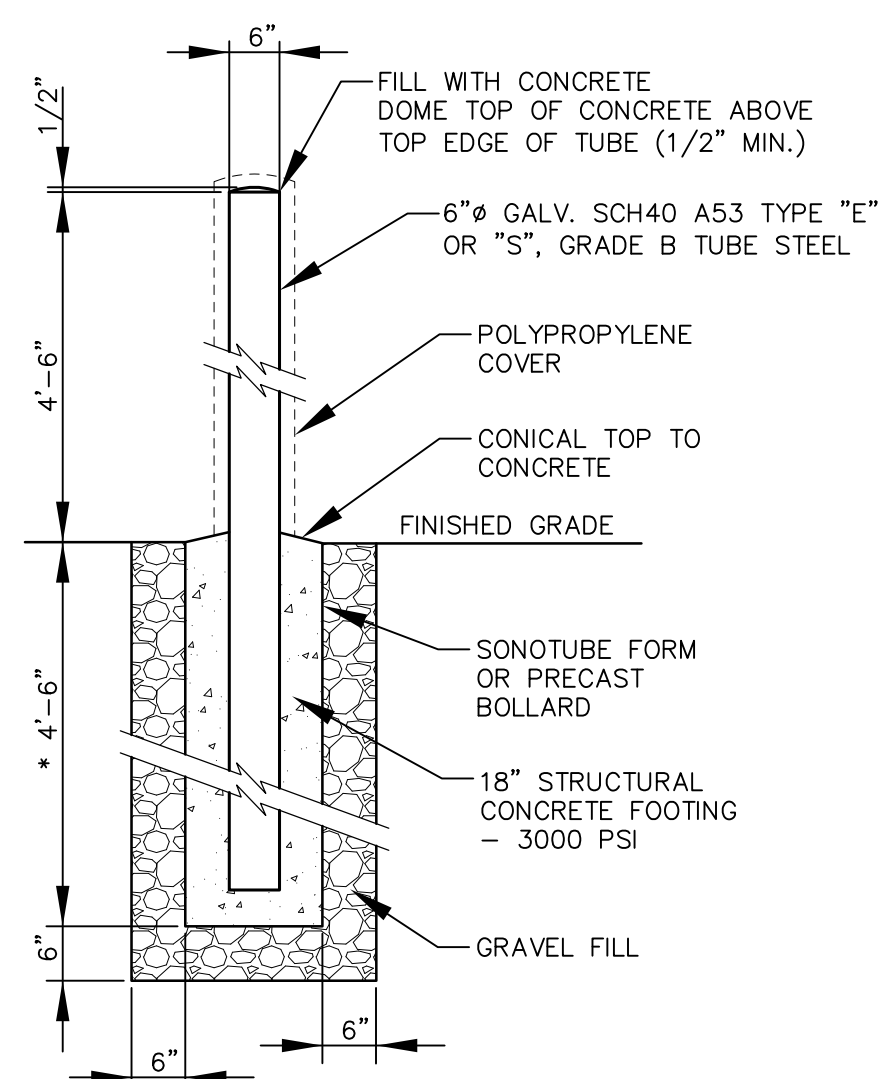
**DUMPSTER PAD PLAN VIEW**  
NOT TO SCALE



**PVC GATE ELEVATION**  
NOT TO SCALE

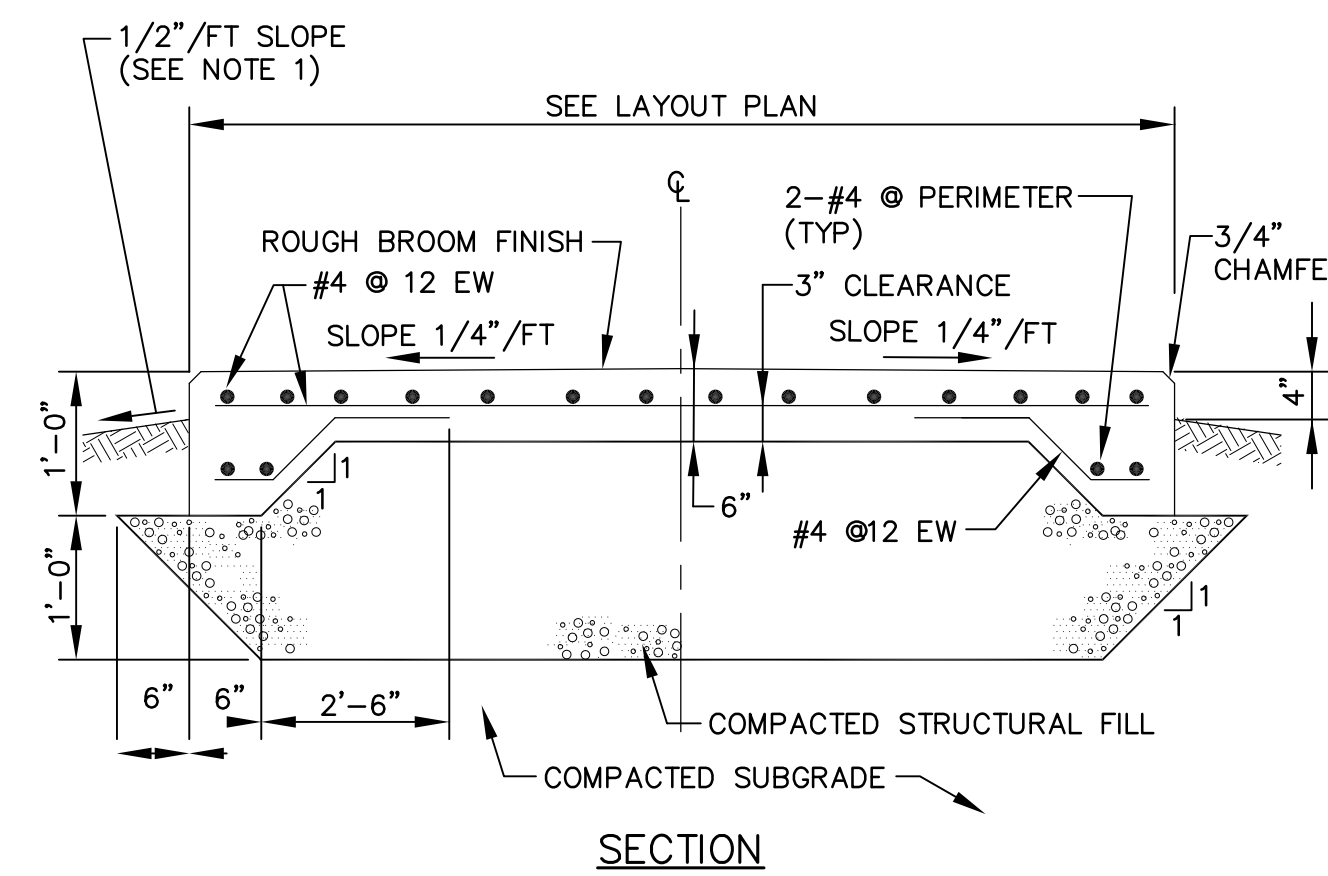


**SWING GATE DETAIL**  
N.T.S.



- NOTES:**
- PLACE BOLLARDS AS SHOWN IN PLAN VIEW AND/OR ACCESSIBLE PARKING LAYOUT DETAIL.

**BOLLARD DETAIL**  
N.T.S.

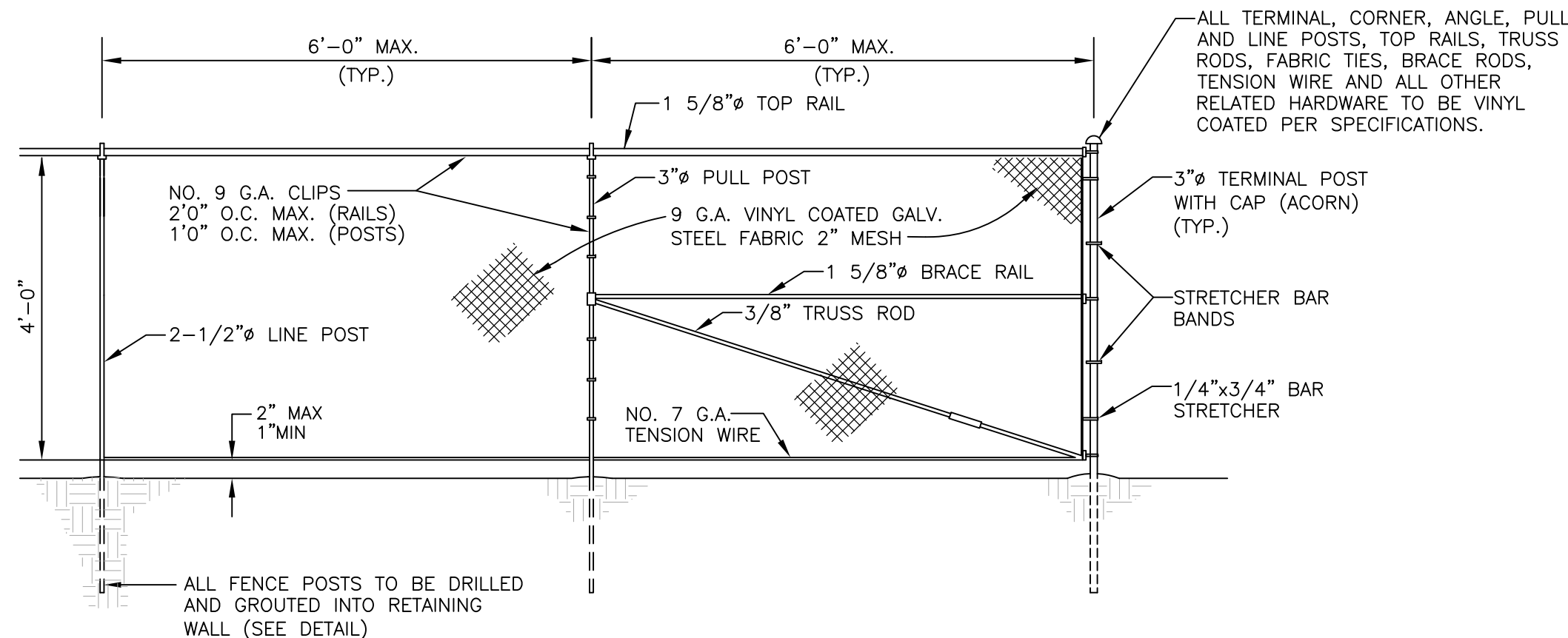


- NOTES:**
- PROVIDE 1/2" PER FOOT SLOPE AWAY FROM PADS WITHIN 10'-0" OF ALL PAD EDGES.
  - ALL SITE CONCRETE WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE DRAWINGS AND MAINE DOT STANDARD SPECIFICATIONS.
  - CONCRETE SHALL HAVE A MINIMUM OF COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
  - SLUMP TEST SHALL BE TAKEN AT THE POINT OF DISCHARGE FROM EACH LOAD OF CONCRETE. SLUMP DISCHARGE SHALL BE A MINIMUM OF 2 INCHES AND 4" MAXIMUM.

**REINFORCING STEEL NOTES:**

- ALL REINFORCING STEEL BARS SHALL BE NEW BILLET STEEL, GRADE 60 CONFORMING TO ASTM A36.

**DUMPSTER/EQUIPMENT PAD DETAIL**  
NOT TO SCALE

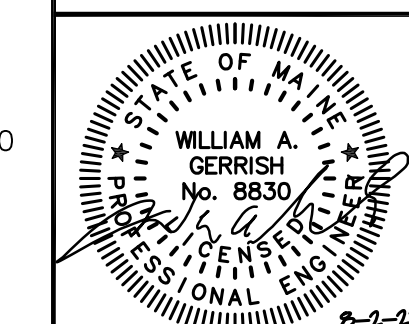


- NOTES:**
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - WHERE FENCE LINE HAS A CHANGE IN DIRECTION OF 15 DEGREES OR MORE, CORNER POSTS WITH BRACING SHALL BE ERCTED.
  - DIAGONAL BRACING AND CENTER BRACE TO BE ERCTED AT ALL GATE POSTS.

**CHAIN LINK FENCE DETAIL**  
NOT TO SCALE

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2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

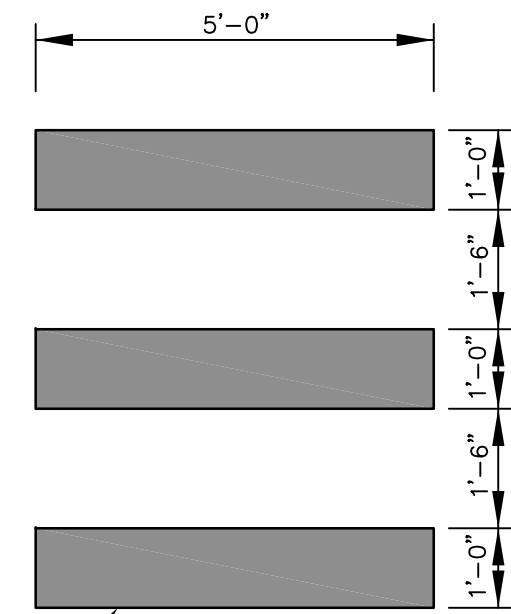
PROJECT NUMBER: 42252	ACAD FILE: 42252-DETAILS.DWG	SCALE: AS NOTED	DATE: JUNE 20, 2023
Drawing Name: <b>CONSTRUCTION DETAILS - SHEET 2</b>			
Project Name: <b>HOLLIS TOWN HALL</b> 34 TOWN FARM ROAD, HOLLIS, MAINE 04042			
Owner/Applicant: <b>JOE ROGALA - BOARD OF SELECTMEN</b> 34 TOWN FARM ROAD, HOLLIS, MAINE 04042			



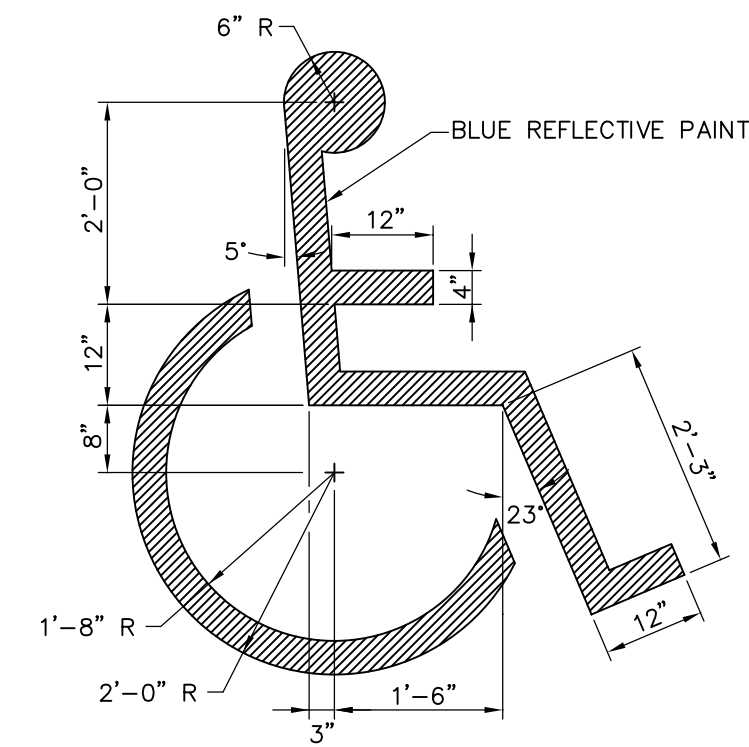
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**Northeast Civil Solutions**  
INCORPORATED  
381 PAYNE ROAD, SCARBOROUGH, MAINE 04074  
tel 207.883.1000  
e-mail / website info@northeastcivilsolutions.com www.northeastcivilsolutions.com

TRAFFIC SIGNS								
IDENTIFICATION NUMBER	SIGN HEIGHT	SIGN WIDTH	POST PER SIGN	TEXT	NUMBER OF SIGNS REQ'D.	SIGN AREA SQ. FT.		REMARKS
						NOM. AREA	TOTAL AREA	
R1-1	30"	30"	1	STOP	5	6.25	31.25	PER MUTCD
R7-8	18"	12"	1	RESERVED PARKING	4	1.5	6.0	PER MUTCD
R7-8b	6"	12"	1	VAN ACCESSIBLE	2	0.5	1.0	PER MUTCD

NOTE: ALL SIGNS SHALL CONFORM TO MUTCD STANDARDS AND MDOT ITEM 645



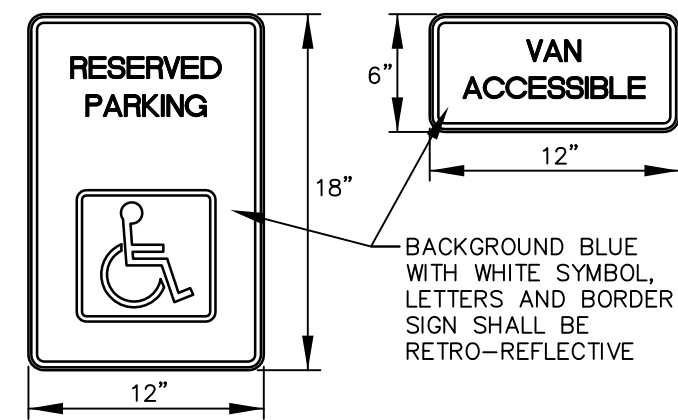
STRIPED CROSS WALK DETAIL  
N.T.S.



NOTE: PER MDOT ITEM 627  
HANDICAPPED PAINTING  
N.T.S.

PAVEMENT MARKING NOTES :

- ALL PAVEMENT MARKING WORDS AND SYMBOLS SHALL BE RETROREFLECTIVE WHITE AND SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MUTCD AND MDOT ITEM 627.
- WORDS AND SYMBOLS SHALL BE CENTERED Laterally WITHIN THE LANE. THE LONGITUDINAL DIMENSION SHALL BE PARALLEL TO THE LANE.
- MULTI-WORD MESSAGES SHALL READ "UP"; THAT IS, THE FIRST WORD SHALL BE NEAREST THE APPROACHING DRIVER.
- THE WORD "ONLY" SHALL NOT BE USED WITH THROUGH OR COMBINATION ARROWS, AND SHALL NOT BE USED ADJACENT TO A BROKEN LANE LINE. A TURN ARROW SHALL PRECEED THE WORD "ONLY".
- COMBINATION ARROWS MAY BE COMPRISED OF 2 SINGLE ARROWS (e.g. TURN AND THROUGH ARROWS). HOWEVER, THE SHAFTS OF THE ARROWS SHALL COINCIDE.
- PREFORMED TAPE WORDS AND SYMBOLS SHALL BE PRE-CUT, EITHER BY THE MANUFACTURER OR THE CONTRACTOR.
- WRONG-WAY ARROWS SHALL NOT BE SUBSTITUTED FOR THROUGH ARROWS.
- LONGITUDINAL SPACING BETWEEN SUCCESSIVE WORDS AND/OR SYMBOLS SHOULD BE AT LEAST 4 TIMES THE HEIGHT OF THE LARGEST CHARACTER.

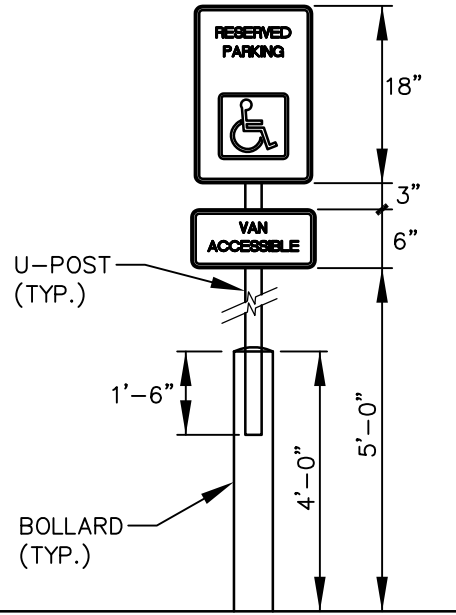


SIGNS

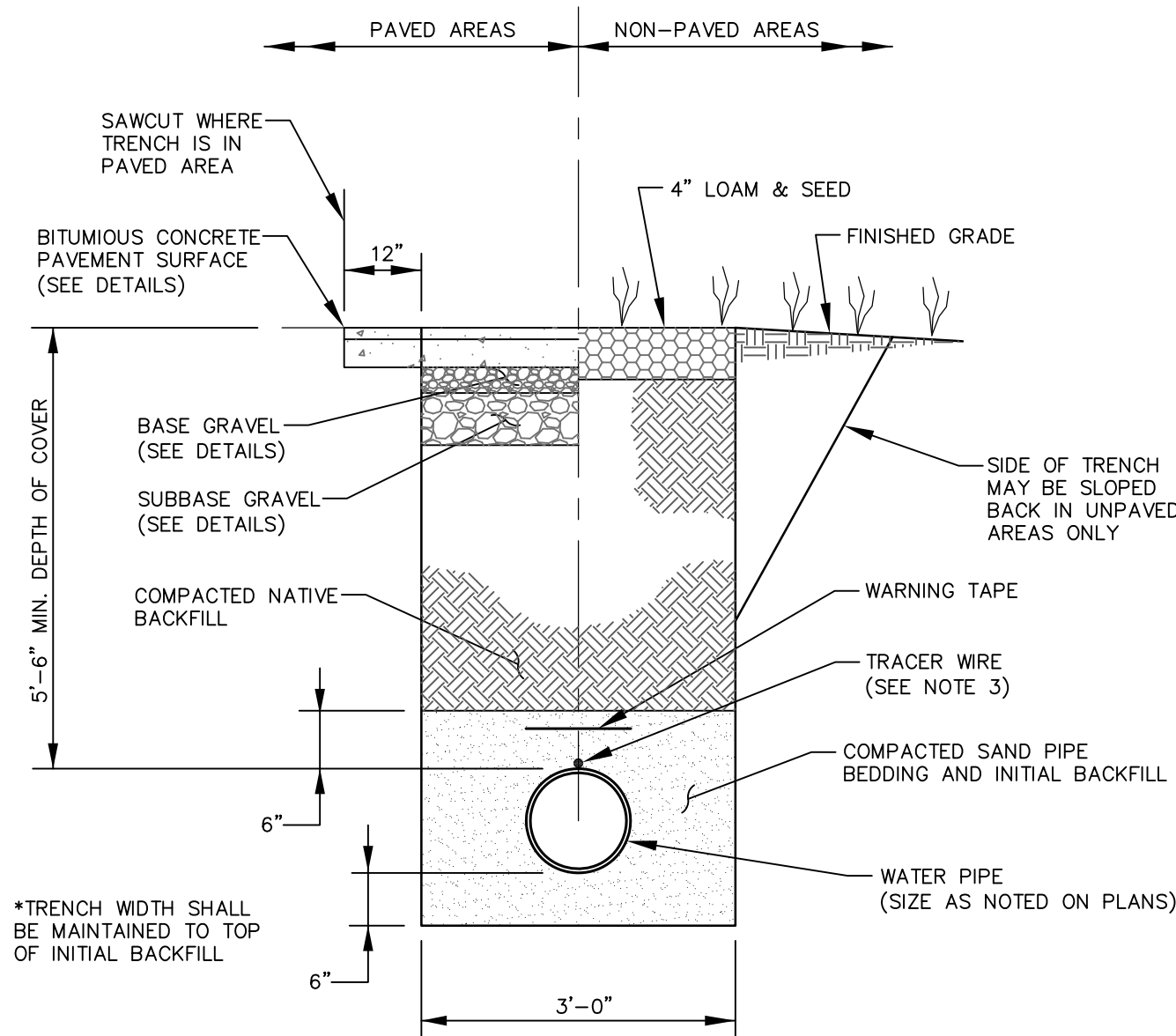
FASTEN SIGN TO U-POST WITH 3/8" GALVANIZED CARRIAGE BOLT AND NUT LOCKING NUT; BOLT HEAD SHALL BE FLUSH WITH FACE OF SIGN (TYP.)

U-POST

MEMBER DESIGNATION = U6  
MATERIAL: A.S.T.M. A-499  
FY = 50,000 PSI MIN.  
GRADE = 50

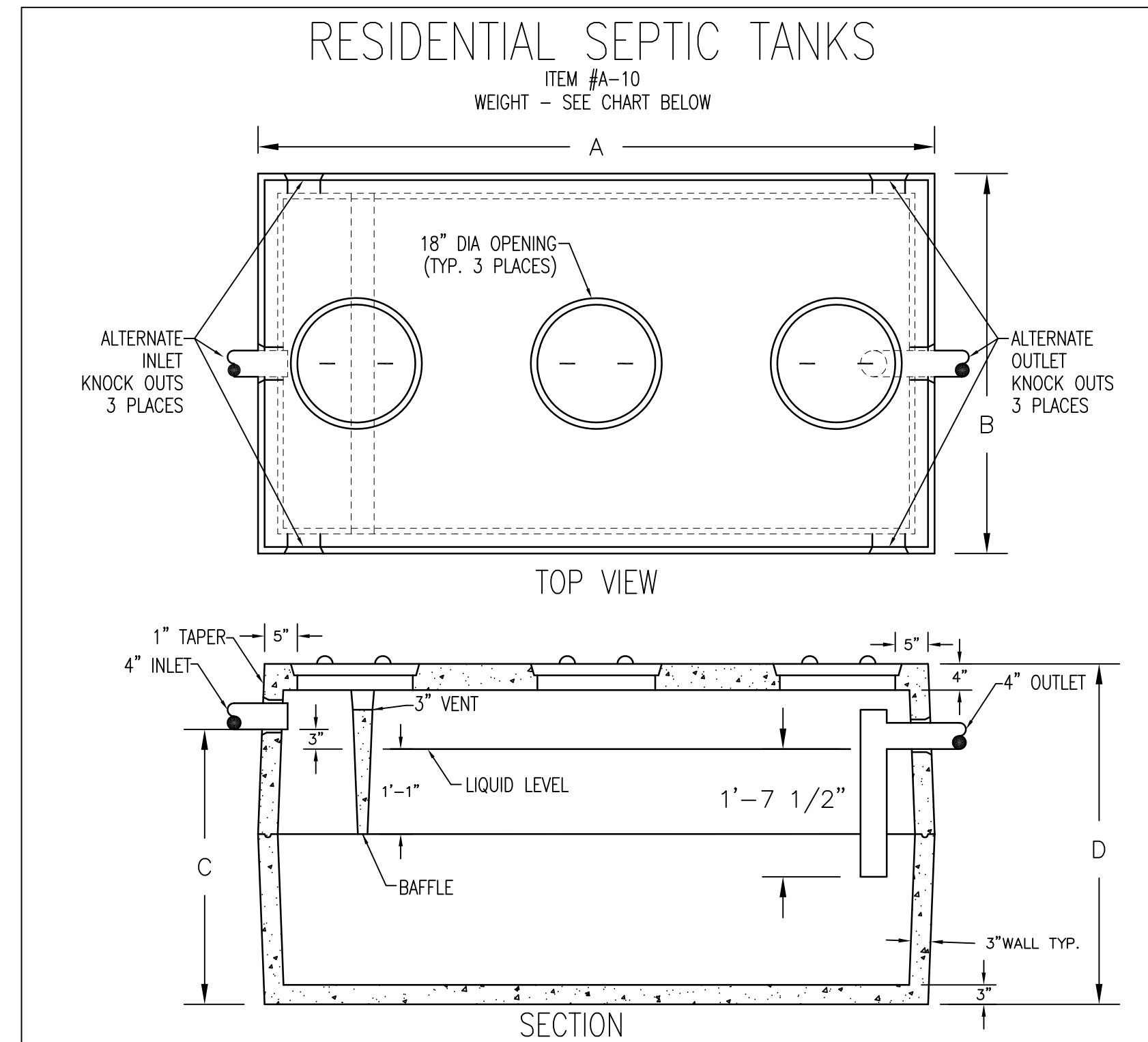


ACCESSIBLE PARKING SIGN  
N.T.S.



- NOTES:
- SAND AND BACKFILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 12 INCHES IN DEPTH AND SHALL BE COMPACTED TO A MINIMUM OF 92 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. BASE AND SUBBASE MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 8 INCHES IN DEPTH AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
  - NONMETALLIC PIPE SHALL BE PARALLELED BY A METALLIC TRACER WIRE GROUND TO METAL AT BOTH ENDS. TRACER WIRE SHALL BE 12 AWG STRANDED COPPER WITH AN HMV-PE JACKET.

WATER TRENCH  
NOT TO SCALE



TANK TO BE HS-20 HEAVY DUTY TANK, SET RISERS & COVERS  
FLUSH WITH FINISHED GRADES

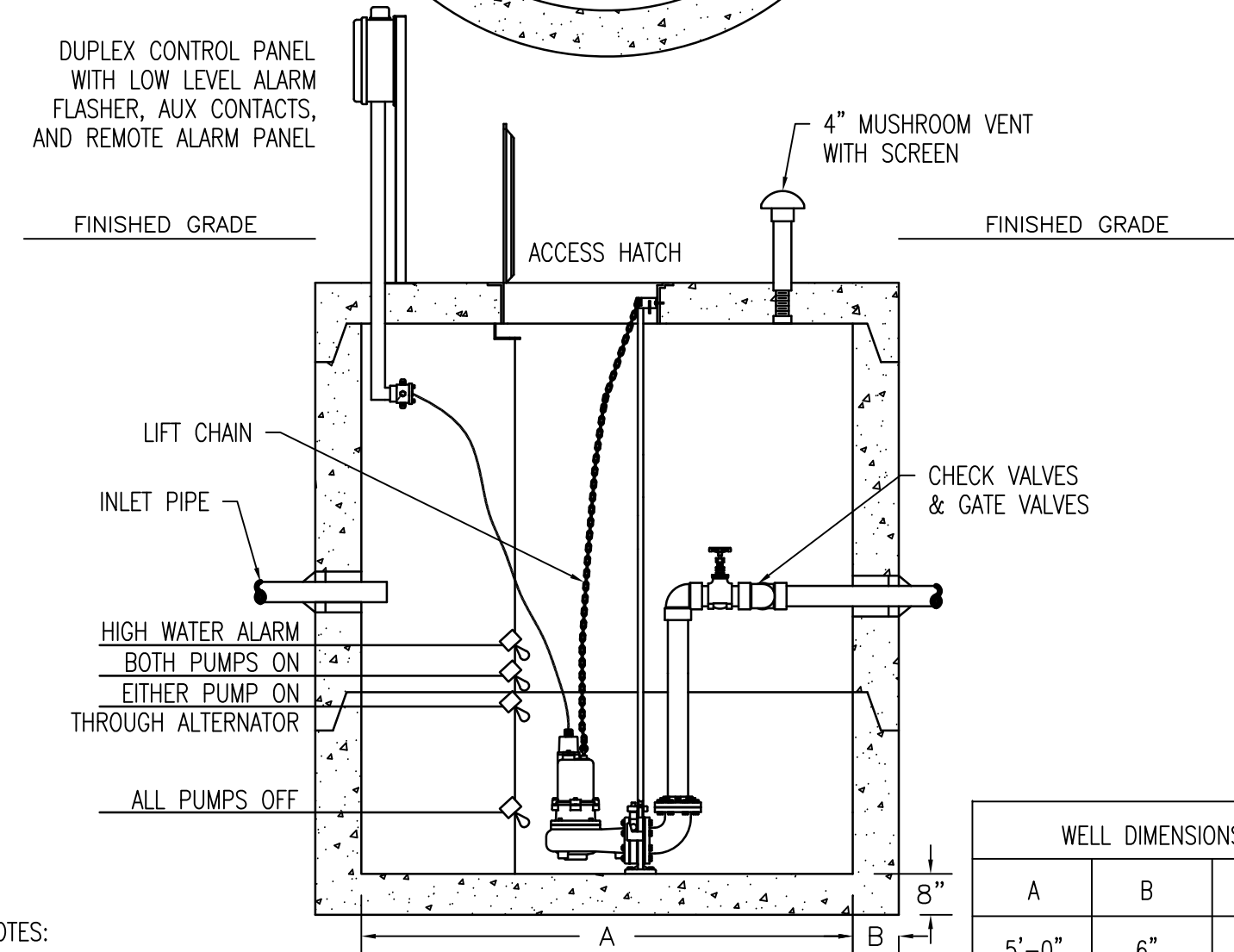
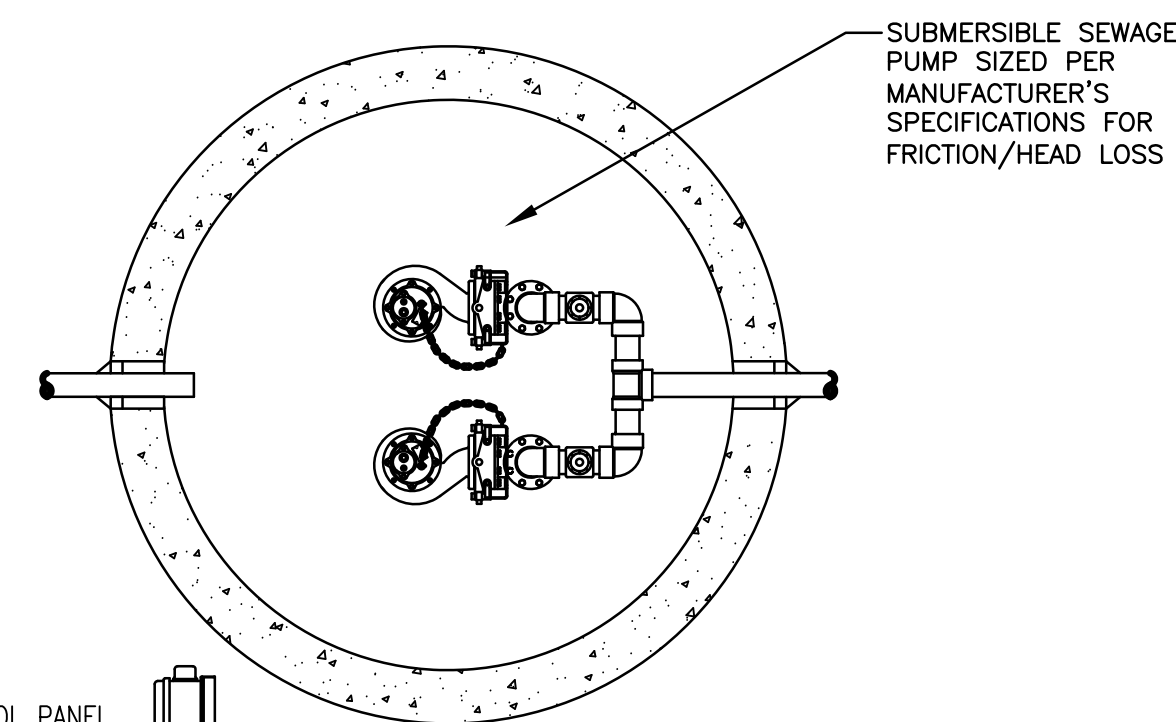
LIQUID CAPACITY (GALLONS)	A	B	C	D	WEIGHT (LBS)	REGULAR ITEM #	HEAVY DUTY ITEM #
760	8'-6"	4'-10"	42"	52"	7,400	A-1001	A-1001HD
1000 REG	8'-0"	4'-10"	55 1/2"	64"	8,100	A-1002	A-1002HD
1000 LB	10'-6"	6'-4"	37 1/2"	48"	10,600	A-1003	A-1003HD
1500	10'-6"	6'-4"	55 1/2"	64"	11,220	A-1004	A-1004HD
2000	10'-6"	6'-4"	65"	74"	12,260	A-1005	A-1005HD

- DESIGN NOTES:
- CONCRETE 4000 PSI AT 28 DAYS.
  - INLET BAFFLE IS PRECAST AS ONE UNIT WITH THE TOP SECTION OF THE SEPTIC TANK.
  - TANKS REINFORCED WITH 6X6X10 G.A. WIRE.
  - KEYED JOINTS SEALED WITH ASPHALT SEALANT.
  - HEAVY DUTY SEPTIC TANK TOPS REINFORCED WITH 1/2" REBAR ON 6" CENTERS EACH WAY.
  - OUTLET FILTERS AVAILABLE.

PRECAST CONCRETE PRODUCTS OF MAINE, INC. PHONE (207) 729-1628 FAX (207) 729-8710

DUPLEX PUMP STATION  
ITEM #D-2

WEIGHT - VARIES BECAUSE OF SIZE AND HEIGHT



WELL DIMENSIONS		
A	B	ITEM #
5'-0"	6"	D-101
6'-0"	7"	D-102
8'-0"	9"	D-103

- DESIGN NOTES:
- FILLETS AND BALLAST CAN BE ADDED AS SPECIFIED.
  - STEPS CAN BE ADDED FOR EASY ACCESS.
  - ALL PUMP TANK AND VALVE PIT EQUIPMENT CAN BE PROVIDED AS SPECIFIED.
  - FLOAT HEIGHT VARIES.

PRECAST CONCRETE PRODUCTS OF MAINE, INC. PHONE (207) 729-1628 FAX (207) 729-8710

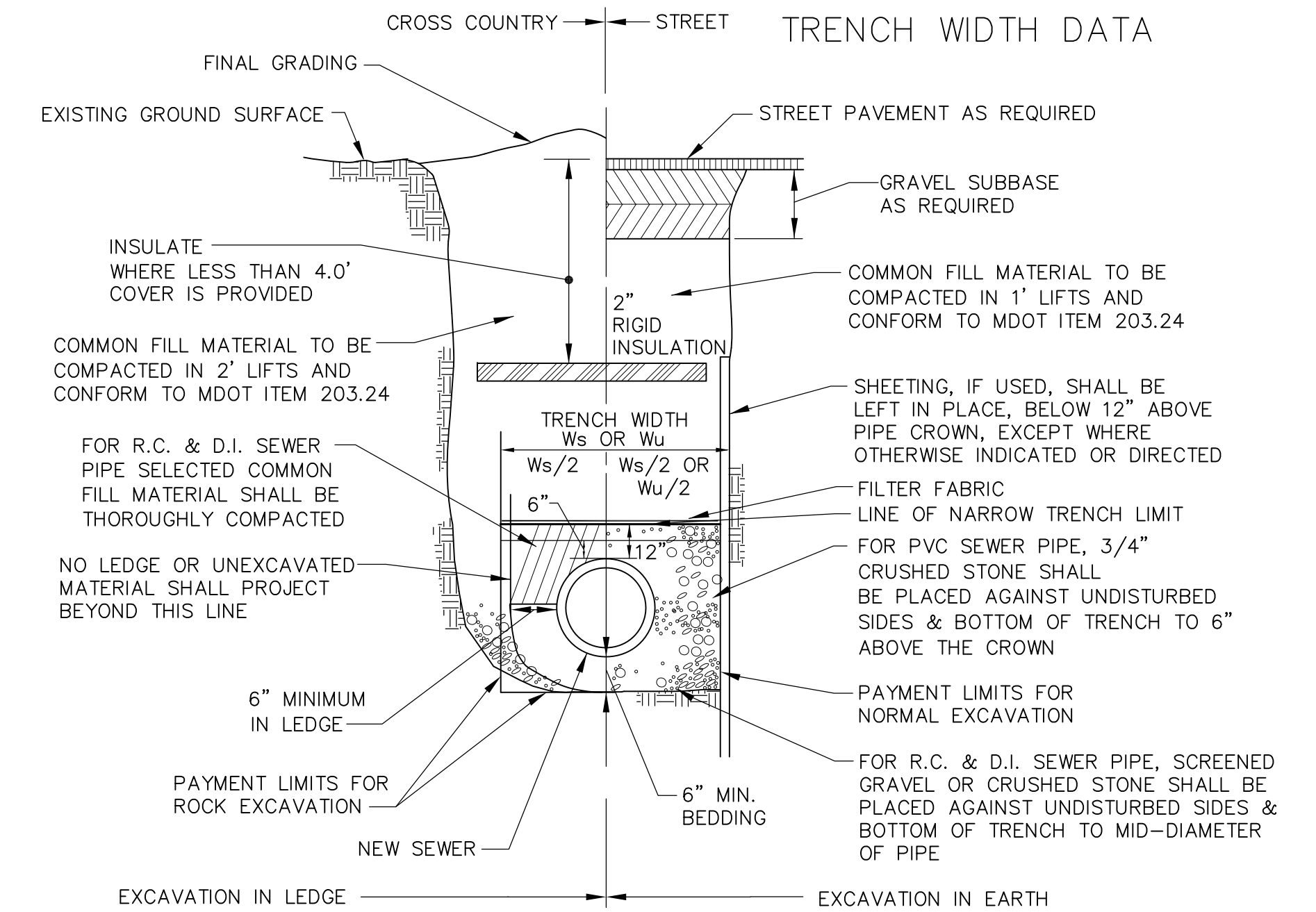
SEWER PUMP STATION

N. T. S.

NOTES:

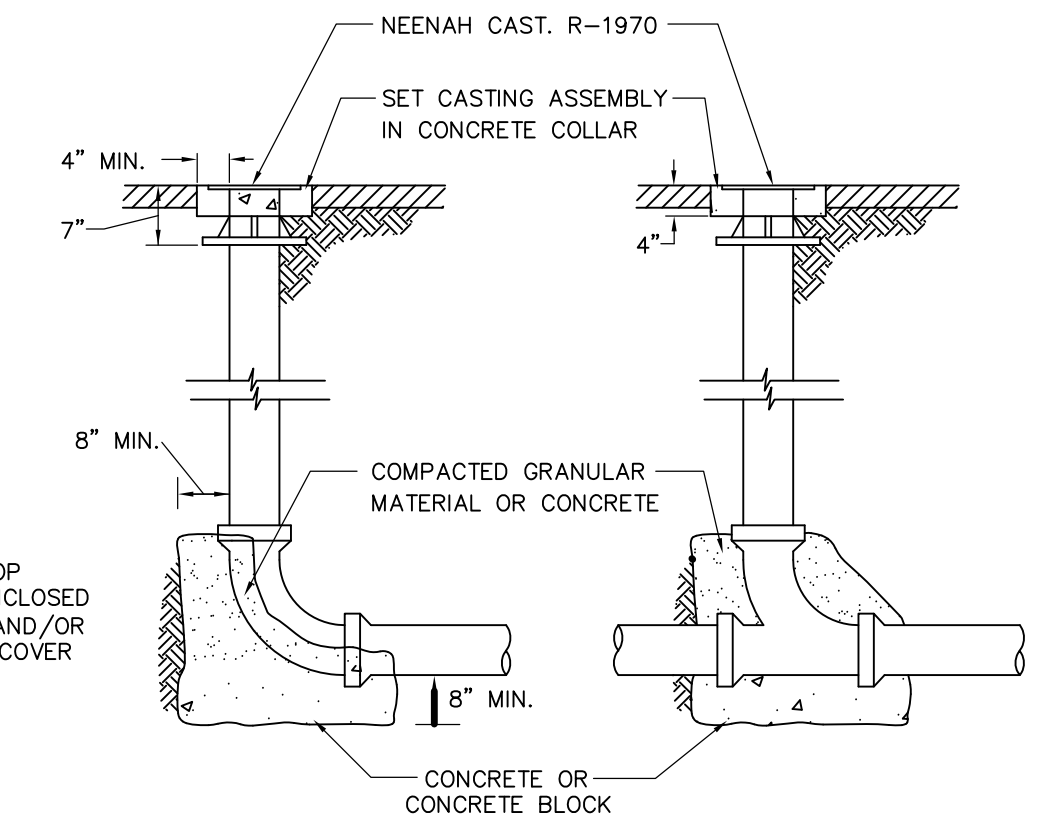
- TRENCHES LOCATED ON THE ROAD SHOULDER SHALL BE TREATED THE SAME AS STREET EXCEPT FOR PAVING
- SATISFACTORY EXCAVATED MATERIAL CAN BE USED FOR BACKFILL ABOVE THE LINE OF NARROW TRENCH LIMIT.

DIAMETER OF PIPE	TRENCH WIDTH Ws OR Wu	
	UN-SHEELED	SHEELED
12" AND SMALLER	3'-0"	4'-4"
15"	3'-2"	4'-4"
18"	3'-6"	4'-8"
21"	3'-10"	5'-0"
24"	4'-2"	5'-4"
27"	4'-6"	5'-8"
30"	4'-10"	6'-0"
36"	5'-6"	6'-8"
42"	6'-2"	7'-4"
48"	6'-10"	8'-0"



SEWER TRENCH SECTION

N. T. S.



DRAIN CLEANOUT DETAIL

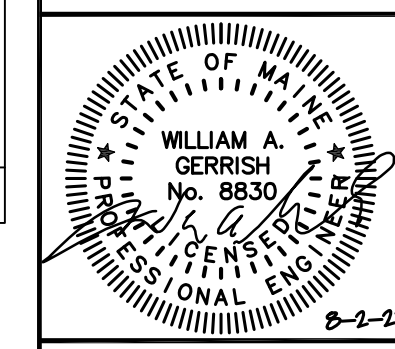
N.T.S.

Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

PROJECT NUMBER: 42252 ACAD FILE: 42252-DETAILS.DWG SCALE: AS NOTED DATE: JUNE 20, 2023

CONSTRUCTION DETAILS - SHEET 3

Project Name:  
**HOLLIS TOWN HALL**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042  
Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042



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e-mail / website: info@northeastcivilsolutions.com www.northeastcivilsolutions.com

**CONSTRUCTION NOTES**

- REFERENCE STANDARDS:** STATE OF MAINE, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, MARCH 2020, INCLUDING THE LATEST REVISIONS OF ADOPTED SUPPLEMENTAL SPECIFICATIONS.
- UNDERGROUND UTILITIES:** ALL UTILITIES SHOWN ARE LOCATED APPROXIMATELY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO EXCAVATION. LOCATIONS SHOWN ARE BASED ON PHYSICAL LOCATIONS AND/OR REFERENCE DRAWINGS. THE CONTRACTOR SHALL CONTACT DIG SAFE (888-344-7233) PRIOR TO THE COMMENCEMENT OF WORK. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- EROSION CONTROL:** EROSION CONTROL MEASURES SHALL FOLLOW STANDARDS AND SPECIFICATIONS CONTAINED IN THE MAINE EROSION AND SEDIMENTATION CONTROL BMP'S DATED OCTOBER 2016, WHICH CAN BE FOUND ON THE MAINE DEP WEBSITE AT [WWW.MAINE.GOV/DEP/LAND/EROSION/ESCRBMP/](http://WWW.MAINE.GOV/DEP/LAND/EROSION/ESCRBMP/). REFER TO EROSION AND SEDIMENTATION PLANS, NOTES AND DETAILS.
- WASTE DISPOSAL AREA:** THERE IS NO DESIGNATED WASTE DISPOSAL AREA ON THE PROPERTY. ALL EXCAVATED MATERIAL NOT SUITABLE FOR REUSE ON THE PROJECT SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. REFER TO DEMOLITION PLAN.
- DEMOLITION:** ANY BUILDINGS AND MISCELLANEOUS STRUCTURES THAT ARE SHOWN ON THE PLANS TO BE REMOVED SHALL BE DEMOLISHED OR REMOVED, AND ALL MATERIALS THEREFROM SHALL BE REMOVED FROM THE SITE. THE REMAINING OR EXISTING FOUNDATIONS AND LIKE STRUCTURES SHALL BE DESTROYED BY BREAKING OUT OR BREAKING DOWN THE MATERIALS TO A DEPTH AT LEAST 4 FEET BELOW THE EXISTING SURROUNDING GROUND. ANY BROKEN CONCRETE, BLOCKS, OR OTHER DEBRIS SHALL BE REMOVED AND DISPOSED OF, AND THE HOLES OR OPENINGS SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL AND PROPERLY COMPACTED. ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. REFER TO DEMOLITION PLAN.
- PROJECT PHASING:** THE EXISTING HOLLIS TOWN HALL AND COMMUNITY BUILDING SHALL REMAIN OPEN AND OPERATIONAL THROUGHOUT THE COURSE OF THIS PROJECT. THE CONTRACTOR SHALL PHASE ALL WORK ON THIS PROJECT TO ALLOW SAFE AND CONVENIENT ACCESS TO THE FACILITY AT ALL TIMES TO THE SATISFACTION OF THE OWNER AND THE ENGINEER. THE CONTRACTOR SHALL PROVIDE EMPLOYEE AND PUBLIC PARKING WITHIN THE EXISTING LOT TO THE GREATEST EXTENT PRACTICABLE THROUGHOUT CONSTRUCTION. THIS SHALL INCLUDE A MINIMUM OF TWO HANDICAP PARKING SPACES AND HANDICAP ACCESS TO THE BUILDINGS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION PHASING PLAN TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION. REFER TO OPERATIONS AND CONSTRUCTION PHASING PLANS.
- CONTRACTOR STAGING:** CONTRACTOR PARKING AND EQUIPMENT STAGING AREA SHALL BE COORDINATED IN ADVANCE WITH THE OWNER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE LIMITS OF WORK SHALL BE RESTORED BY THE CONTRACTOR AT THE COMPLETION OF WORK.
- EXCAVATION WORK:** A GEOTECHNICAL SUBSURFACE INVESTIGATION WAS COMPLETED FOR THE SITE BY S.W. COLE ENGINEERING OF GRAY MAINE. REFER TO REPORT DATED JULY 19, 2023. ALL EXISTING UNSUITABLE FILL MATERIAL AND BURIED ORGANICS ENCOUNTERED DURING EXCAVATION OPERATIONS SHALL BE REMOVED AND BACKFILLED WITH COMPACTED GRANULAR FILL. THE CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATION TO MINIMIZE DISTURBANCE OF SUBGRADE SOILS. THE SITE ENGINEER (NORTHEAST CIVIL SOLUTIONS) SHALL BE CONTACTED IMMEDIATELY SHOULD THE SUBGRADE BECOME YIELDING OR DIFFICULT TO WORK. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF SUBGRADE SOILS DURING CONSTRUCTION. BEDROCK REMOVAL SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE S.W. COLE REPORT. EXCESS EXCAVATED MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
- FILL AND COMPACTION:** COMMON FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 12 INCHES IN DEPTH AND SHALL BE COMPACTED TO A MINIMUM OF 92 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
- BASE AND SUBBASE:** BASE AND SUBBASE MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 8 INCHES IN DEPTH AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
- TOPSOIL:** ALL EXISTING TOPSOIL SHALL BE STRIPPED AND STOCKPILED AT A LOCATION APPROVED BY THE OWNER PRIOR TO EXCAVATION. ALL DISTURBED AREAS OUTSIDE THE LIMITS OF PAVEMENT SHALL BE RESTORED WITH LOAM AND SEED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
  - MATERIALS**
    - TOPSOIL SHALL BE FRIABLE, FERTILE, NATURAL FREE-DRAINING SCREENED LOAM, TYPICAL OF THE LOCALITY; FREE OF SUBSOIL, ROOTS, GRASS, STICKS, WEEDS, CLAY, SOD LUMPS, DEBRIS AND STONES LARGER THAN 1-INCH IN MAXIMUM DIMENSION. SOIL SHALL NOT BE EXCESSIVELY ACID OR ALKALINE, NOR CONTAIN TOXIC MATERIAL HARMFUL TO PLANT GROWTH.
    - FERTILIZER SHALL BE A COMPLETE COMMERCIAL FERTILIZER, 10-10-10 GRADE, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
    - LIME SHALL BE GROUND LIMESTONE CONTAINING NOT LESS THAN 95% CALCIUM AND MAGNESIUM CARBONATES.
    - SEED SHALL BE FROM THE SAME OR PREVIOUS YEAR'S CROP AND SHALL HAVE NOT MORE THAN 1% WEED CONTENT.
    - SEED MIX

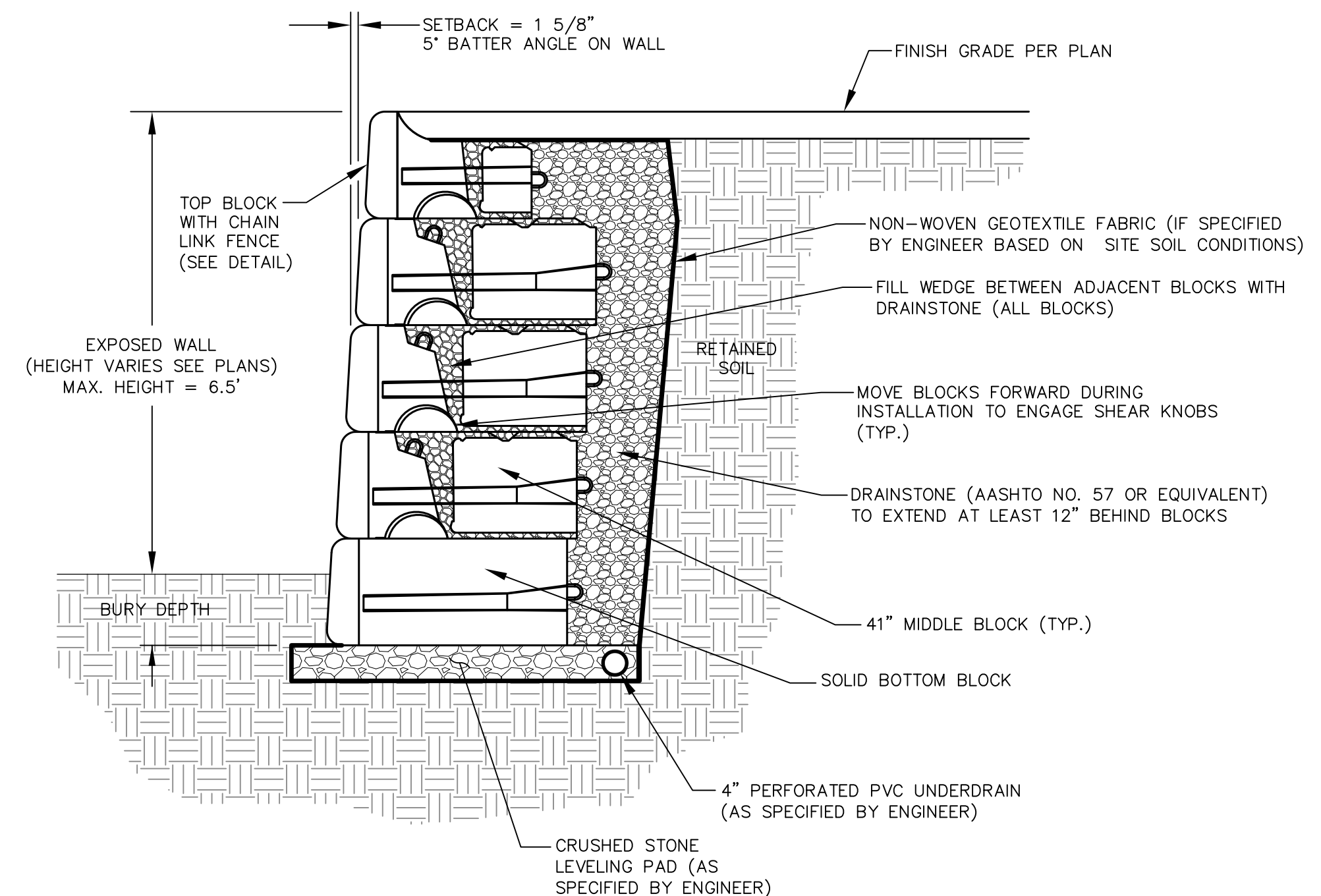
MDOT METHOD 1-PARK MIXTURE SHALL BE USED ON LOAM AREAS. PERCENT GERMINATION SHALL BE GREATER THAN 80%, PURE LIVE SEED SHALL BE GREATER THAN 85%, PERCENT PURITY SHALL BE GREATER THAN 85%, AND WEED SEED SHALL BE LESS THAN 1%.

KIND OF SEED	PERCENT BY WEIGHT
CREeping RED FESCUE	45%
KENTUCKY BLUEGRASS	25%
CHEWINGS FESCUE	15%
PERENNIAL RYEGRASS	10%
ANNUAL RYEGRASS	5%
TOTAL	100%

- HAY MULCH SHALL CONSIST OF MOWED AND PROPERLY CURED GRASS OR LEGUME MOWINGS, REASONABLY FREE FROM SWAMP GRASS, WEEDS, TWIGS, DEBRIS OR OTHER DELETERIOUS MATERIAL. IT SHALL BE FREE FROM ROT OR MOLD.
  - MULCH ANCHORING: WHEN MULCH MUST BE HELD IN PLACE, MULCH NETTING (PAPER, TWINE, PLASTIC, OR PLASTIC AND WOOD FIBER) SHALL BE USED.
- 11.02 EXECUTION**
- RAKE THE SUBGRADE OF ALL AREAS TO BE LOAMED FOR SEED OR GROUND COVER AND REMOVE ALL RUBBISH, STICKS, ROOTS, AND STONES LARGER THAN 1 INCH IN MAXIMUM DIMENSION. SPREAD AND LIGHTLY COMPACT THE LOAM TO FINISHED GRADE AS SHOWN ON THE DRAWINGS. WHEN FINISHED GRADES ARE NOT INDICATED, THEY SHALL BE UNIFORM BETWEEN THE POINTS FOR WHICH FINISHED GRADES ARE GIVEN, OR FROM SUCH POINTS TO EXISTING GRADES, EXCEPT THAT THE TOP AND BOTTOM OF SLOPES SHALL BE ROUNDED. COMPACTED LOAM SHALL NOT BE LESS THAN 4 INCHES IN DEPTH. NO LOAM SHALL BE SPREAD IN WATER OR WHILE FROZEN OR MUDDY.
  - AFTER THE LOAM IS PLACED AND BEFORE IT IS RAKED TO TRUE LINES AND ROLLED, SPREAD LIME EVENLY OVER LOAM SURFACE AND THOROUGHLY INCORPORATE INTO THE LOAM BY HEAVY RAKING TO AT LEAST ONE-HALF THE DEPTH OF THE LOAM.
  - UNIFORMLY SPREAD FERTILIZER AND IMMEDIATELY MIX WITH THE UPPER 2 INCHES OF LOAM.
  - IMMEDIATELY FOLLOWING THIS PREPARATION, UNIFORMLY APPLY THE SEED EVENLY IN TWO (2) INTERSECTING DIRECTIONS AND LIGHTLY RAKE THE SEED INTO THE SURFACE. LIGHTLY ROLL THE SURFACE AND WATER WITH A FINE SPRAY.
  - SEED SHALL BE SOWN IN A FAVORABLE SEASON AS APPROVED BY THE ENGINEER. SEEDING SHALL NOT BE DONE DURING WINDY WEATHER WHEN GROUND IS FROZEN, EXCESSIVELY WET OR OTHERWISE UNTILLABLE.
  - PROMPTLY THEREAFTER OR WITHIN 24 HOURS AFTER THE SEEDING OPERATION, LIGHTLY AND UNIFORMLY MULCH THE AREA WITH HAY. SPREAD HAY BY HAND OR WITH MACHINE.
  - ANCHOR MULCH ON ALL SLOPES EXCEEDING 5% AND OTHER AREAS AS REQUIRED.
  - PROTECT AGAINST WASHOUTS BY AN APPROVED METHOD. ANY WASHOUT WHICH OCCURS SHALL BE REGRADED AND RESEEDED AT THE CONTRACTOR'S EXPENSE UNTIL A GOOD GROWTH IS ESTABLISHED.

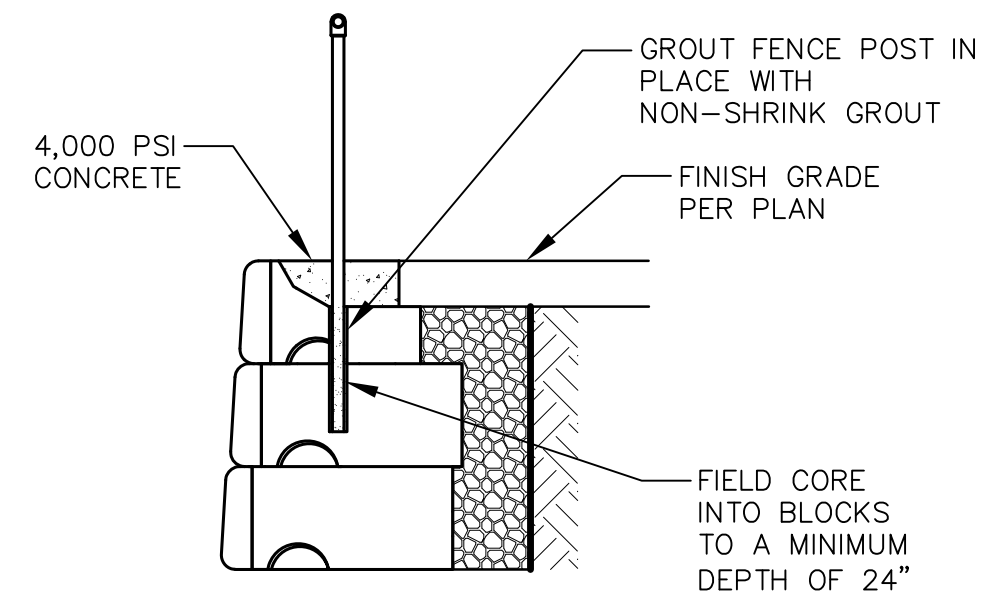
- 11.03 APPLICATION RATES:** UNLESS OTHERWISE SHOWN ON THE DRAWINGS:
- PLACE LOAM TO A MINIMUM DEPTH OF 4 INCHES, OR AS SHOWN ON THE DRAWINGS.
  - APPLY LIME AT THE RATE OF 75 TO 100 LBS PER 1,000 SQUARE FEET.
  - APPLY FERTILIZER AT THE RATE OF 30 LBS PER 1,000 SQUARE FEET, UNLESS SHOWN OTHERWISE IN THE DRAWINGS.
  - APPLY SEED AT A RATE OF AT LEAST 1 LB PER 1,000 SQUARE FEET.
  - APPLY MULCH AT THE RATE OF 90 LBS PER 1,000 SQUARE FEET.

- 11.04 MAINTENANCE**
- KEEP ALL SEEDED AREAS WATERED AND IN GOOD CONDITION, RESEEDING IF AND WHEN NECESSARY UNTIL A GOOD, HEALTHY, UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA SEEDED. MAINTAIN THESE AREAS IN AN APPROVED CONDITION UNTIL FINAL ACCEPTANCE OF GROWTH BY THE ENGINEER. THE MAINTENANCE SHALL INCLUDE REPAIRS FOR DAMAGE CAUSED BY EROSION.



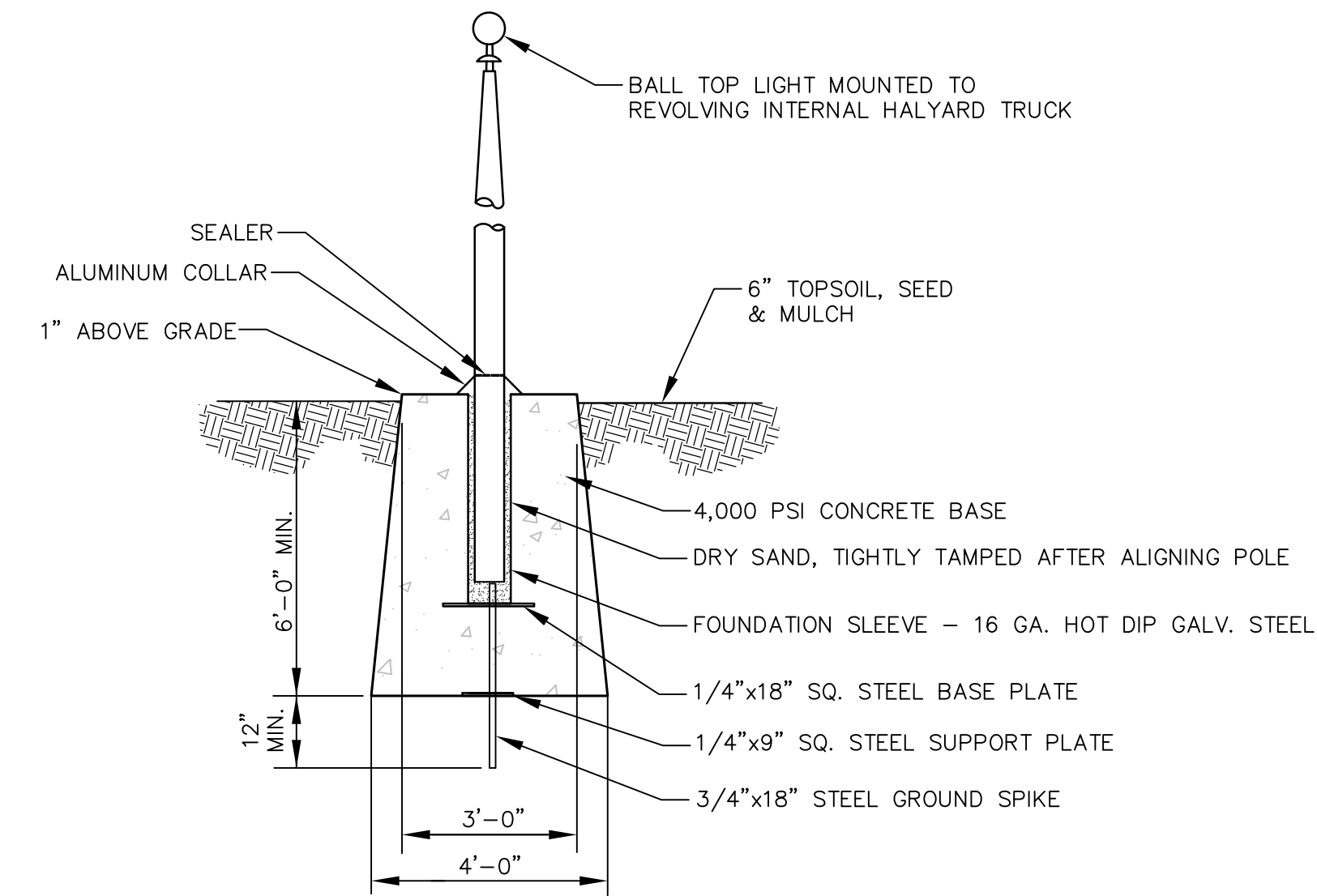
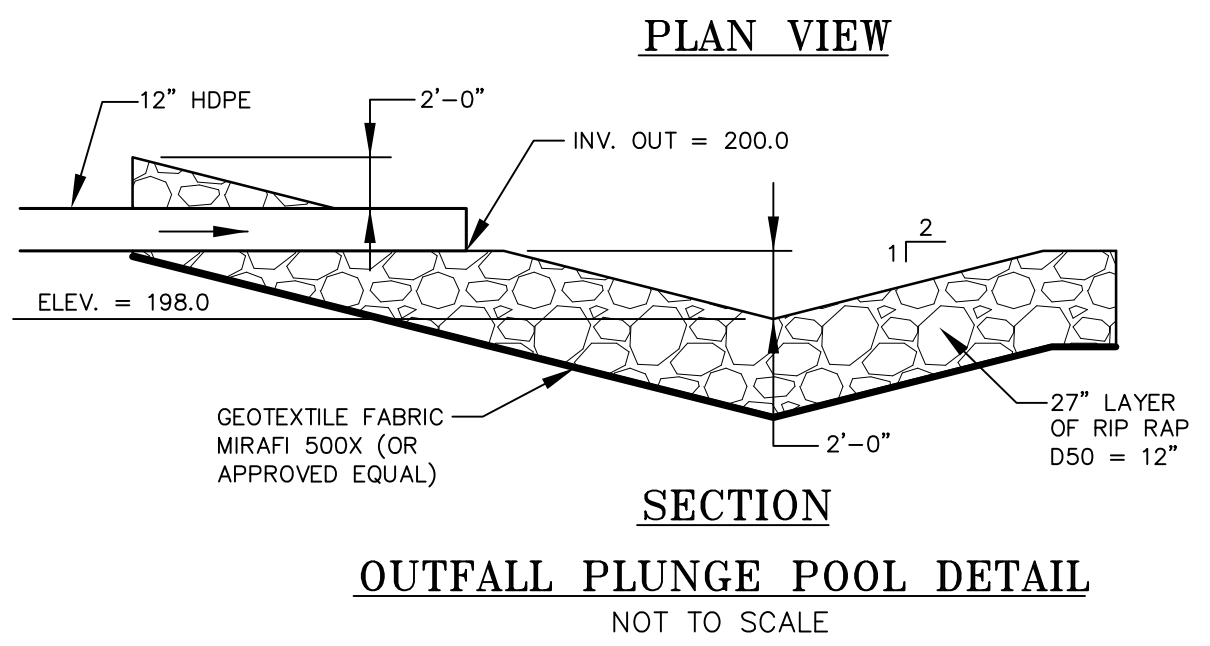
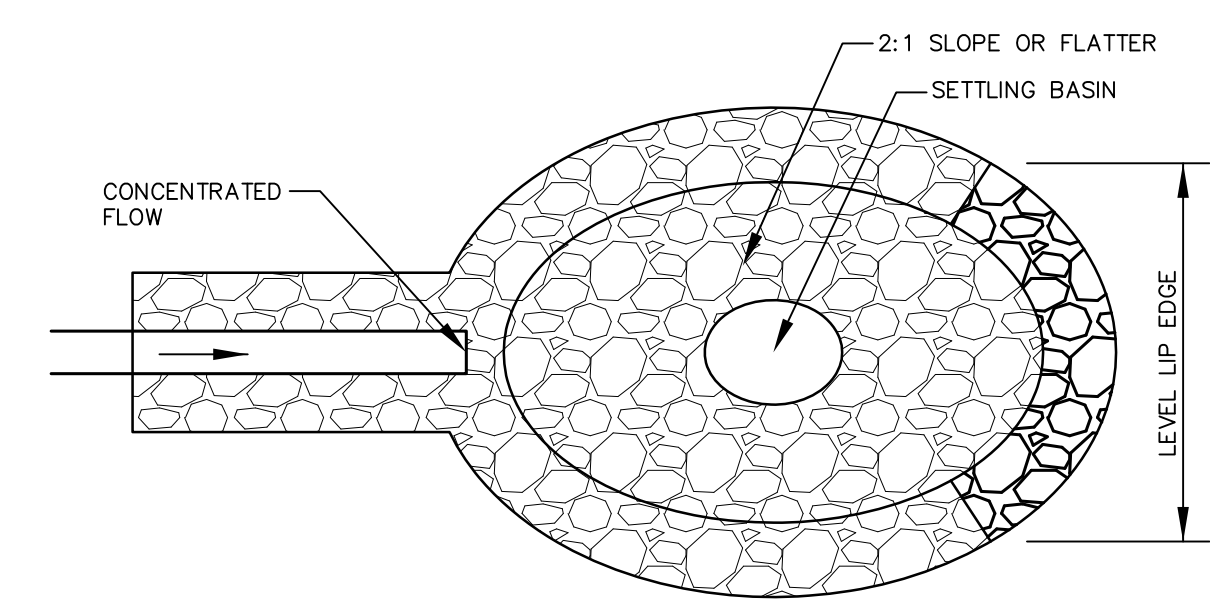
- RETAINING WALL NOTES:**
- PROPOSED RETAINING WALL DETAILS ARE BASED ON DRAWINGS PROVIDED BY REDI-ROCK.
  - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INCLUDING DESIGN DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY THE RESPONSIBLE DESIGN PROFESSIONAL.

**TYPICAL GRAVITY WALL DETAIL**  
N.T.S.



- NOTES:**
- MAXIMUM SPACING OF FENCE POSTS INSTALLED IN RETAINING WALL SHALL BE 6'-0".
  - CORE DRILL A MINIMUM OF 24" INTO SOLID PORTION OF CONCRETE BLOCKS AND A MINIMUM OF 2" LARGER THAN THE POST DIAMETER.
  - ALL POSTS SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. PROVIDE A 12" DIAMETER CONCRETE PAD AROUND EACH POST TO FINISH GRADE.

**GRouted FENCE POST CONNECTION INTO RETAINING WALL DETAIL**  
N.T.S.



- NOTES:**
- 40' ALUMINUM FLAGPOLE SHALL BE TRADITIONAL STYLE; COLOR: SATIN; WITH REVOLVING NON-FOULING INTERVAL HALYARD TRUCK, MODEL EXC40 IH AS MANUFACTURED BY THE ELDER FLAG MANUFACTURING CO. INC., OR APPROVED EQUAL.
  - BALL BEACON LIGHT SHALL BE BALL TOP LIGHT WITH EIGHT (8) ULTRA BRIGHT 8MM LED LIGHTS AND PHOTO SENSOR. BEACON SHALL BE DESIGNED TO ROTATE WITH THE HALYARD TRUCK.
  - FLAGPOLE ASSEMBLY SHALL BE DESIGNED TO WITHSTAND 120 MPH WINDS (FLAGGED).

Revision	By	Date	Change
2	SMA	8/2/23	BID SET
1	SMA	6/19/23	CLIENT REVIEW

PROJECT NUMBER: 42252 ACAD FILE: 42252-DETAILS.DWG SCALE: AS NOTED DATE: JUNE 20, 2023

Drawing Name:  
**CONSTRUCTION DETAILS - SHEET 4**

Project Name:  
**HOLLIS TOWN HALL**  
34 TOWN FARM ROAD, HOLLIS, MAINE 04042

Owner/Applicant:  
**JOE ROGALA - BOARD OF SELECTMEN**  
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**WILLIAM A. GERRISH**  
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SHEET 16 OF 16

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