

# HABITAT FOR HUMANITY

## BEAVER HILL SUBDIVISION

For  
HABITAT FOR HUMANITY - YORK COUNTY  
123 YORK STREET  
KENNEBUNK, MAINE 04043

### PLAN INDEX

- 1 SITE PLAN
- 2 SUBDIVISION PLAN
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- 5 STANDARD DETAILS
- 6 STORMWATER & EROSION CONTROL DETAILS
- A PRE DEVELOPMENT WATERSHED
- B POST DEVELOPMENT WATERSHED

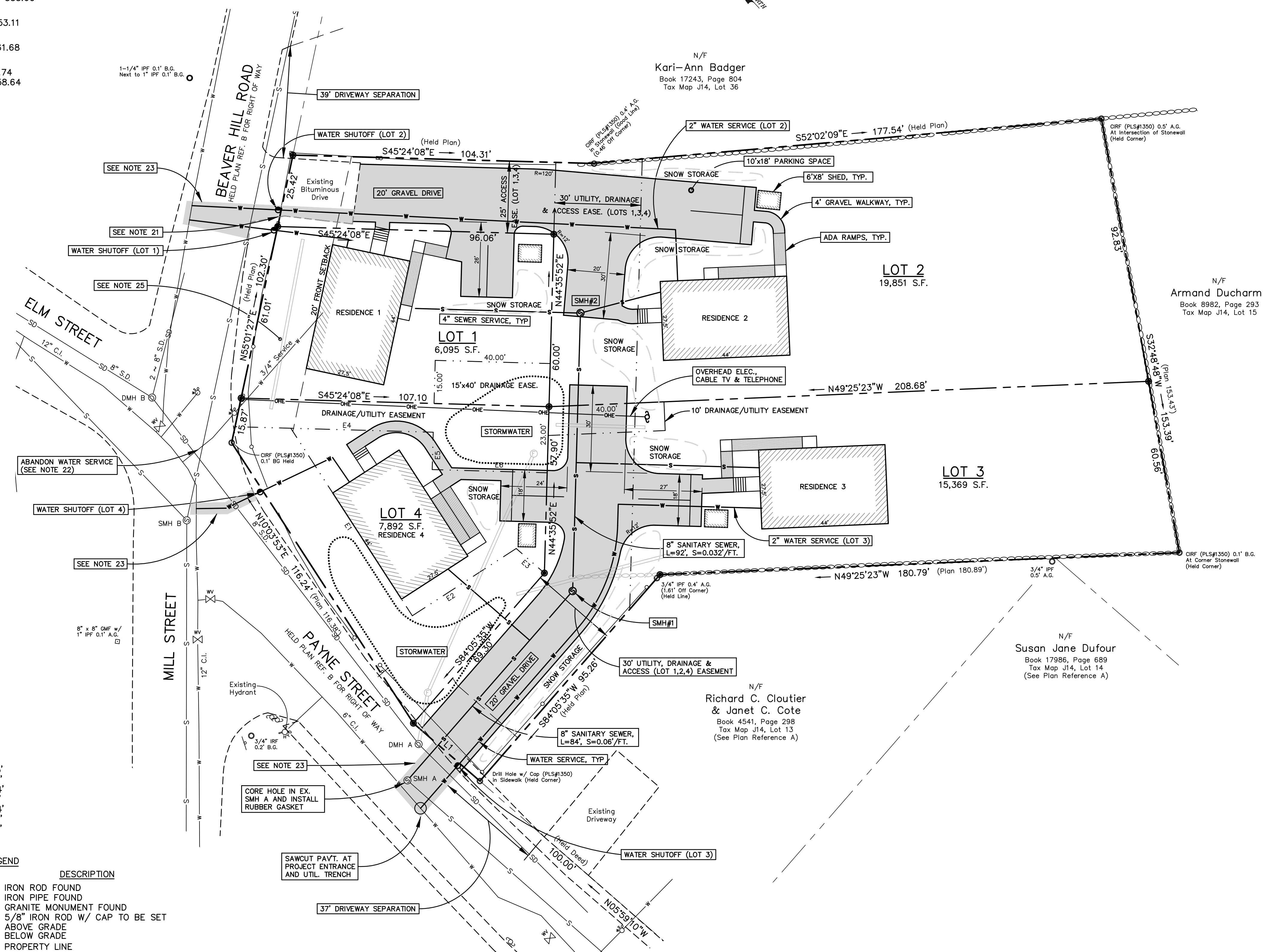


*Berry, Huff, McDonald, Milligan Inc.*  
Engineers, Surveyors

380B Main Street      Tel. (207) 839-2771  
Gorham, Maine 04038      Fax (207) 839-8250

STORMDRAIN/SEWER STRUCTURES

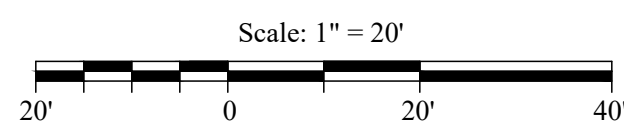
- CB A - RIM 360.05  
8" INV. OUT 357.50
- DMH A - RIM 360.93  
8" INV. IN (CB A) 356.53  
8" INV. IN 356.31  
8" INV. OUT (DMH B) 356.31
- DMH B - RIM 363.98  
8" INV. IN (DMH A) 355.46  
8" INV. IN 359.35  
8" INV. IN 356.43  
8" INV. OUT 355.46
- SMH A - RIM 361.16  
CHANNEL 353.46  
NEW INVERT 353.60
- SMH B - RIM 362.30  
CHANNEL 353.11
- SMH 1 - RIM 375.50  
INV. OUT 361.68
- SMH 2 - RIM 364.50  
INV. IN 358.74  
INV. OUT 358.64



- LINE DATA
- L1 - N05°59'10"W 30.65'
  - E1 - S10°03'53"W 77.72'
  - E2 - N79°56'07"W 43.04'
  - E3 - S05°54'25"E 13.00'
  - E4 - N45°24'08"W 64.54'
  - E5 - S44°35'52"W 13.00'
  - E6 - S45°24'08"E 40.00'

SYMBOL	DESCRIPTION
○ IRF	IRON ROD FOUND
○ IPF	IRON PIPE FOUND
● GMP	GRANITE MONUMENT FOUND
○	5/8" IRON ROD W/ CAP TO BE SET ABOVE GRADE
○	BELOW GRADE
---	PROPERTY LINE
---	EASEMENT
---	EDGE OF PAVEMENT
---	NOW OR FORMERLY
○	CHAIN LINK FENCE
○	RAIL FENCE
○	STONE WALL
○	UTILITY POLE
○	OVERHEAD UTILITIES
---	STORM DRAIN
---	SANITARY SEWER
---	WATER LINE
---	WATER SHUT OFF
---	WATER VALVE
---	DRAIN MANHOLE
---	SANITARY SEWER MANHOLE
---	HYDRANT

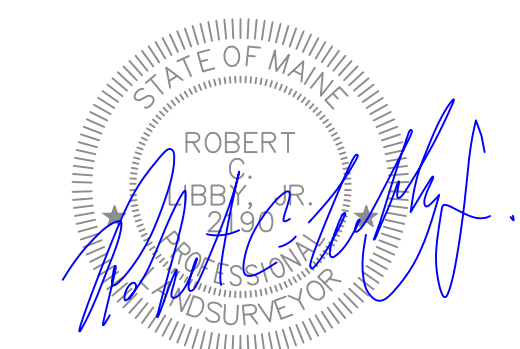
LINE DATA  
L1 - N05°59'10"W, 30.65'



- NOTES:
- OWNER/APPLICANT: HABITAT FOR HUMANITY YORK COUNTY  
P.O. BOX 267  
KENNEBUNK, MAINE 04043
  - ENGINEER: STEVEN J. BLAKE II, PE #11695  
BH2M  
3808 MAIN STREET  
GORHAM, MAINE
  - SURVEYOR: ROBERT C. LIBBY JR., PLS #2190  
BH2M
  - WETLAND DELINEATION: MARK HAMPTON  
MARK HAMPTON ASSOCIATES  
PORTLAND, MAINE
  - DEED REFERENCE: BK. 18944, PG. 664
  - LOT AREA: 49,206 S.F.
  - TAX MAP REFERENCE: MAP J14, BLOCK 12B
  - ZONING: URBAN
  - EXISTING USE: VACANT LOT
  - PROPOSED USE: 4 ~ SINGLE FAMILY LOT SUBDIVISION
  - SEWER SERVICE: PUBLIC
  - WATER SERVICE: PUBLIC
  - ELECTRIC/TELEPHONE: OVERHEAD
  - ON SITE PARKING: 2 PER RESIDENCE
  - SNOW STORAGE IS PROHIBITED WITHIN THE STORMWATER FILTER BASIN.
  - PLAN REFERENCES:
    - A. PLAN OF LOT ON PAYNE STREET, SPRINGVALE VILLAGE, SANFORD, ME, OWNED BY N.T. FOGG, DATED MARCH 3, 1902, BY GEO. P. CHASE AND RECORDED IN THE Y.C.R.D., PL. BK. 5, PG. 35.
    - B. PLAN SHOWING A BOUNDARY SURVEY & EXISTING CONDITIONS PLAN MADE FOR ROCKWELL INVESTMENT GROUP, LL, DATED AUG. 1, 2012, BY CORNER POST SURVEYING, INC.. (UNRECORDED)
  - SITE BENCH MARK: CONTROL POINT 1001, PK NAIL SET IN PAVEMENT, OBTAINED USING A CARLSON BRX7 ROVER, ELEVATION 374.32 (NGVD 1988).
  - COORDINATES/BEARINGS: BEARINGS AND NORTH ORIENTATION SHOWN ARE BASED ON THE MAINE STATE COORDINATE SYSTEM, WEST ZONE NAD 83, USING A CARLSON BRX7 ROVER.
  - ALL CONSTRUCTION AND SITE ALTERATIONS SHALL BE DONE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL BMP'S, LATEST REVISION.
  - EXISTING UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING DIG SAFE AND VERIFYING LOCATIONS PRIOR TO START OF CONSTRUCTION.
  - SHUTOFFS SHALL BE SEPARATED BY AT LEAST 5 FEET AT THE PROPERTY LINE.
  - ABANDONED WATER SERVICE SHALL BE DISCONNECTED AT THE WATER MAIN TO THE SATISFACTION OF THE SANFORD WATER DISTRICT.
  - A HIGHWAY EXCAVATION AND TRAFFIC CONTROL PERMIT IS REQUIRED THROUGH THE SANFORD DEPT. OF PUBLIC WORKS FOR ANY WORK PERFORMED WITHIN THE PUBLIC RIGHT OF WAY.
  - ALL WATER SERVICES WITHIN THE PUBLIC RIGHT OF WAY SHALL BE 1" COPPER.
  - CORNER SITE CLEARANCE SHALL REMAIN UNOBSTRUCTED ALONG THE FRONTAGE OF THE PROJECT. NO STRUCTURES OR VEGETATION SHALL BE INSTALLED WITHIN THE 20' FRONT SETBACK THAT IMPACTS SITE DISTANCE.

I CERTIFY THAT THIS SURVEY CONFORMS TO THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS TECHNICAL STANDARDS OF PRACTICE FOR A STANDARD BOUNDARY SURVEY WITH THE FOLLOWING EXCEPTIONS:

- NO SURVEYORS REPORT



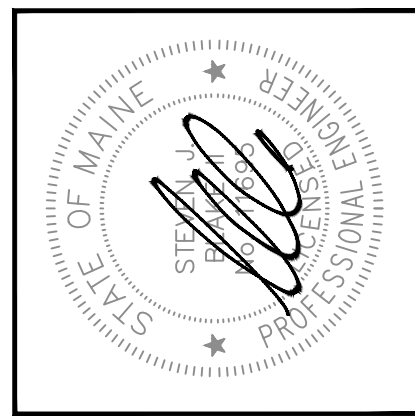
ROBERT C. LIBBY JR. PLS #2190

PLAN REVIEWED AND APPROVED BY THE CITY OF SANFORD PLANNING BOARD.

CHAIR	DATE
_____	_____

YORK,ss REGISTRY OF DEEDS  
Received \_\_\_\_\_  
at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M., and  
filed In Plan Book \_\_\_\_\_ Page \_\_\_\_\_  
ATTEST: \_\_\_\_\_  
Register

NO.	DATE	REVISION DESCRIPTION
1	10/31/24	Submitted to City of Sanford for Review
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3	11/26/24	Revised Per City Comments



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www.bh2m.com

FOR  
Habitat For Humanity York County  
P. O. Box 267  
Kennebunk, Maine 04043

SITE PLAN  
BEAVER HILL SUBDIVISION  
3 BEAVER HILL ROAD  
SPRINGVALE, MAINE

DESIGNED W. Pelkey	DATE Oct. 2024
DRAWN W. Pelkey	SCALE 1" = 20'
CHECKED S. Blake	JOB. NO. 22257

SHEET  
**1**  
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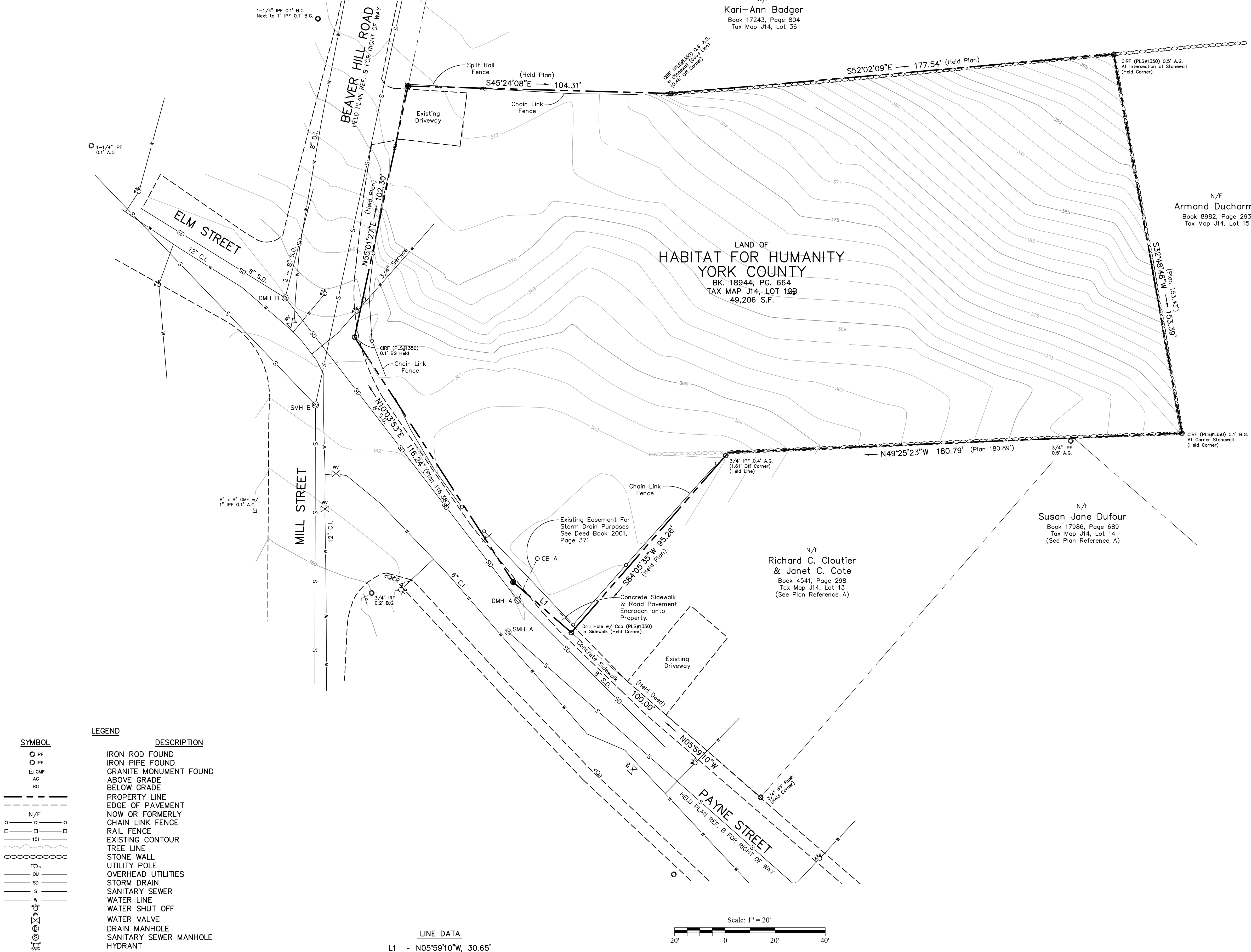
**STORMDRAIN/SEWER STRUCTURES**

- CB A — RIM 360.05  
8" INV. OUT 357.50
- DMH A — RIM 360.93  
8" INV. IN (CB A) 356.53  
8" INV. IN 356.31  
8" INV. OUT (DMH B) 356.31
- DMH B — RIM 363.98  
8" INV. IN (DMH A) 355.46  
8" INV. IN 359.35  
8" INV. IN 356.43  
8" INV. OUT 355.46
- SMH A — RIM 361.16  
CHANNEL 353.46
- SMH B — RIM 362.30  
CHANNEL 353.11

**GENERAL NOTES:**

1. OWNER: HABITAT FOR HUMANITY YORK COUNTY  
P.O. BOX 267  
KENNEBUNK, MAINE 04043
2. TAX MAP REFERENCE: MAP J14, BLOCK 12B
3. PARCEL DEED REFERENCE: BOOK 18944, PAGE 664
4. ZONING: UB
5. AREA OF PARCEL: 49,206 S.F.
6. SITE BENCH MARK: CONTROL POINT 1001, PK NAIL SET IN PAVEMENT, OBTAINED USING A CARLSON BRX7 ROVER, ELEVATION 374.32 (NGVD 1988).
7. COORDINATES/BEARINGS: BEARINGS AND NORTH ORIENTATION SHOWN ARE BASED ON THE MAINE STATE COORDINATE SYSTEM, WEST ZONE (NAD 83), OBTAINED USING A CARLSON BRX7 ROVER.
8. PLAN REFERENCES:
  - A. PLAN OF LOT ON PAYNE STREET, SPRINGVALE VILLAGE, SANFORD, ME, OWNED BY N.T. FOGG, DATED MARCH 3, 1902, BY GEO. P. CHASE AND RECORDED IN THE Y.C.R.D., PL. BK. 5, PG. 35.
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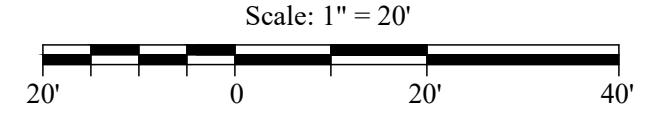
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**LEGEND**

SYMBOL	DESCRIPTION
○ IRF	IRON ROD FOUND
○ IFF	IRON PIPE FOUND
□ GMF	GRANITE MONUMENT FOUND
AG	ABOVE GRADE
BD	BELOW GRADE
---	PROPERTY LINE
---	EDGE OF PAVEMENT
○	NOW OR FORMERLY
□	CHAIN LINK FENCE
---	RAIL FENCE
---	EXISTING CONTOUR
---	TREE LINE
---	STONE WALL
○	UTILITY POLE
---	OVERHEAD UTILITIES
---	STORM DRAIN
---	SANITARY SEWER
---	WATER LINE
---	WATER SHUT OFF
---	WATER VALVE
---	DRAIN MANHOLE
---	SANITARY SEWER MANHOLE
---	HYDRANT

**LINE DATA**  
L1 - N05°59'10"W, 30.65'



I CERTIFY THAT THIS SURVEY CONFORMS TO THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS TECHNICAL STANDARDS OF PRACTICE FOR A STANDARD BOUNDARY SURVEY WITH THE FOLLOWING EXCEPTIONS:

1. NO SURVEYORS REPORT

ROBERT C. LIBBY JR.  
Professional Land Surveyor

ROBERT C. LIBBY JR. PLS #2190

**EXISTING CONDITIONS PLAN**  
LAND OF HABITAT FOR HUMANITY YORK COUNTY  
3 BEAVER HILL ROAD  
SPRINGVALE, MAINE

DESIGNED Survey	DATE Oct. 2024
DRAWN W. Pelkey	SCALE 1" = 20'
CHECKED R. Libby Jr.	JOB. NO. 22257

SHEET  
**3**

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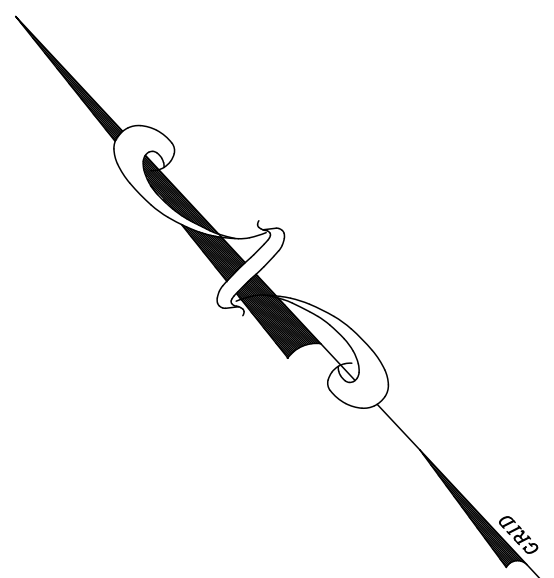
FOR  
Habitat For Humanity York County  
P. O. Box 267  
Kennebunk, Maine 04043

**EXISTING CONDITIONS PLAN**  
LAND OF HABITAT FOR HUMANITY YORK COUNTY  
3 BEAVER HILL ROAD  
SPRINGVALE, MAINE

**STORMDRAIN STRUCTURES**

- CB A - RIM 360.05  
8" INV. OUT 357.50 **REMOVE**
- DMH A - RIM 360.93  
8" INV. IN (CB A) 356.53  
8" INV. IN 356.31  
8" INV. OUT (TO DMH B) 356.31
- DMH B - RIM 363.98  
8" INV. IN (DMH A) 355.46  
8" INV. IN 359.35  
8" INV. IN 356.43 (NEW)  
8" INV. OUT 355.46
- OCS#1 - RIM 364.50  
6" INV. IN 360.50  
8" INV. OUT 360.50
- OCS#2 - RIM 361.00  
6" INV. IN 356.50  
8" INV. IN 356.50  
8" INV. OUT 356.50

S.D.#1 - 12", L=30', S=0.005/FT.  
S.D.#2 - 8", L=88', S=0.046/FT.  
S.D.#3 - 12", L=60', S=0.117/FT.

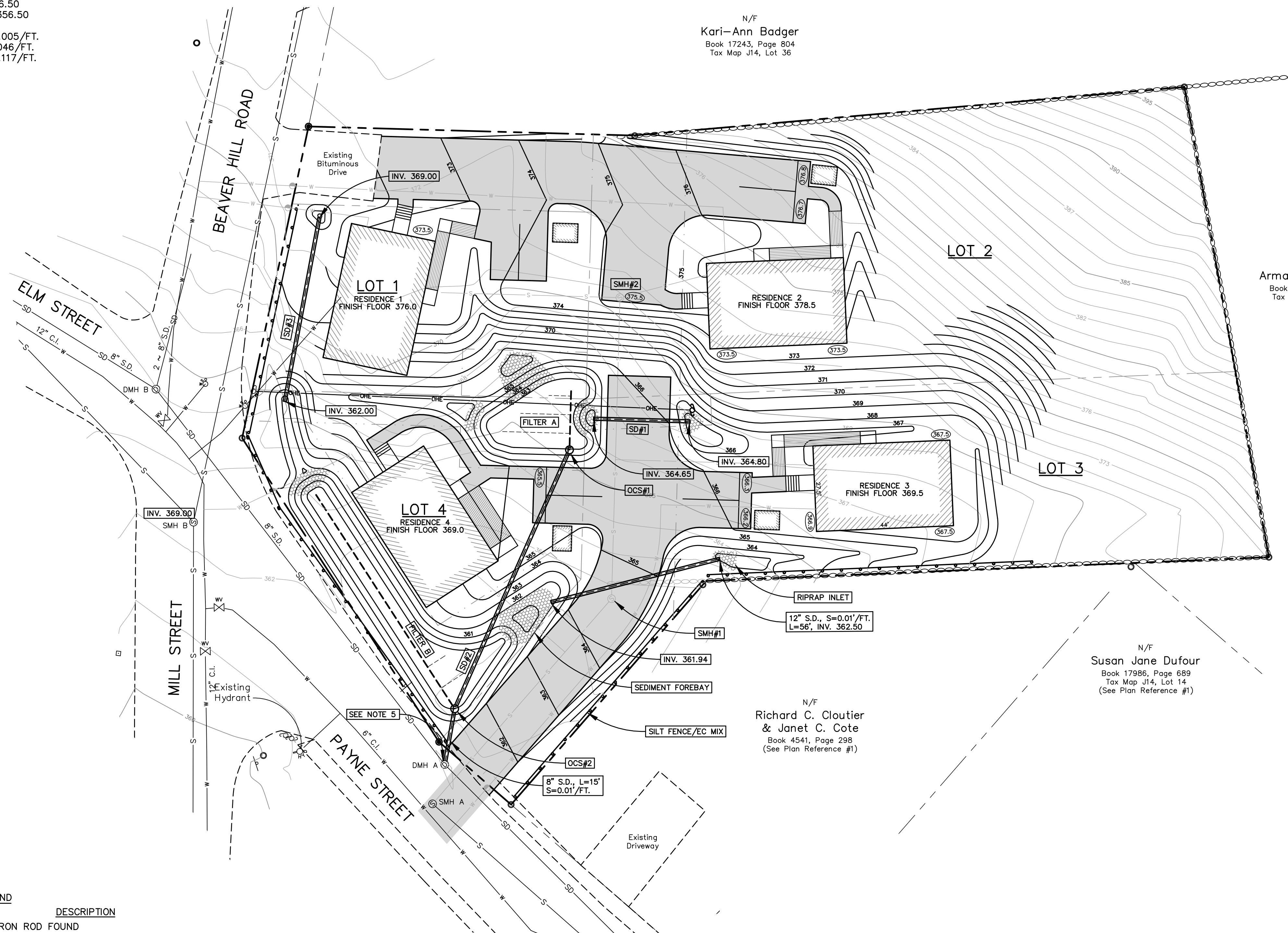


N/F  
Kari-Ann Badger  
Book 17243, Page 804  
Tax Map J14, Lot 36

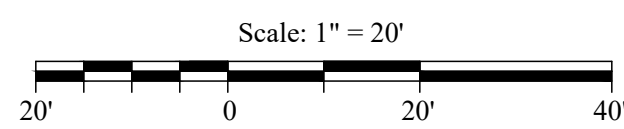
N/F  
Armand Ducharme  
Book 8982, Page 293  
Tax Map J14, Lot 15

N/F  
Susan Jane Dufour  
Book 17986, Page 689  
Tax Map J14, Lot 14  
(See Plan Reference #1)

N/F  
Richard C. Cloutier  
& Janet C. Cote  
Book 4541, Page 298  
(See Plan Reference #1)

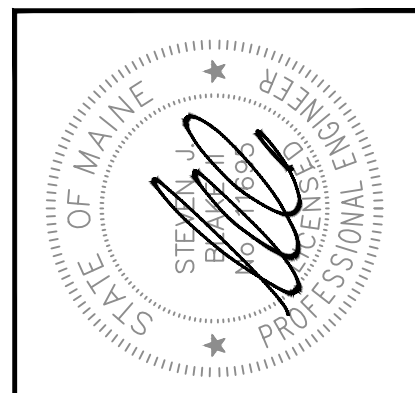


SYMBOL	DESCRIPTION
○ IRF	IRON ROD FOUND
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● IRS	5/8" IRON ROD W/ CAP TO BE SET
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BG	BELOW GRADE
---	PROPERTY LINE
- - -	EDGE OF PAVEMENT
N/F	NOW OR FORMERLY
○ - ○	CHAIN LINK FENCE
□ - □	RAIL FENCE
○ - ○ - ○	STONE WALL
○	UTILITY POLE
○ - ○	OVERHEAD UTILITIES
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---	WATER LINE
---	WATER SHUT OFF
---	WATER VALVE
○	DRAIN MANHOLE
○	SANITARY SEWER MANHOLE
○	HYDRANT



- NOTES:
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE PRIOR TO CONSTRUCTION, SEE DETAIL.
  2. INSTALL LOWPOINT SEDIMENT CONTROL BARRIERS AT ALL CATCH BASIN LOCATIONS, SEE DETAIL.
  3. INSTALL SILT FENCE OR EROSION CONTROL MIX PRIOR TO CONSTRUCTION, SEE DETAIL.
  4. STABILIZE ALL 2:1 SIDESLOPES WITH SLOPE STABILIZATION BLANKET, SEE DETAIL.
  5. PRIOR TO CONNECTING TO THE CITY STORM DRAIN SYSTEM, THE OWNER MUST SIGN AND RECORD AT THE YORK COUNTY REGISTRY OF DEEDS A STORM DRAIN CONNECTION AGREEMENT WITH THE CITY OF SANFORD. CONNECTION TO THE CITY STORM DRAIN SHALL BE COORDINATED WITH THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.

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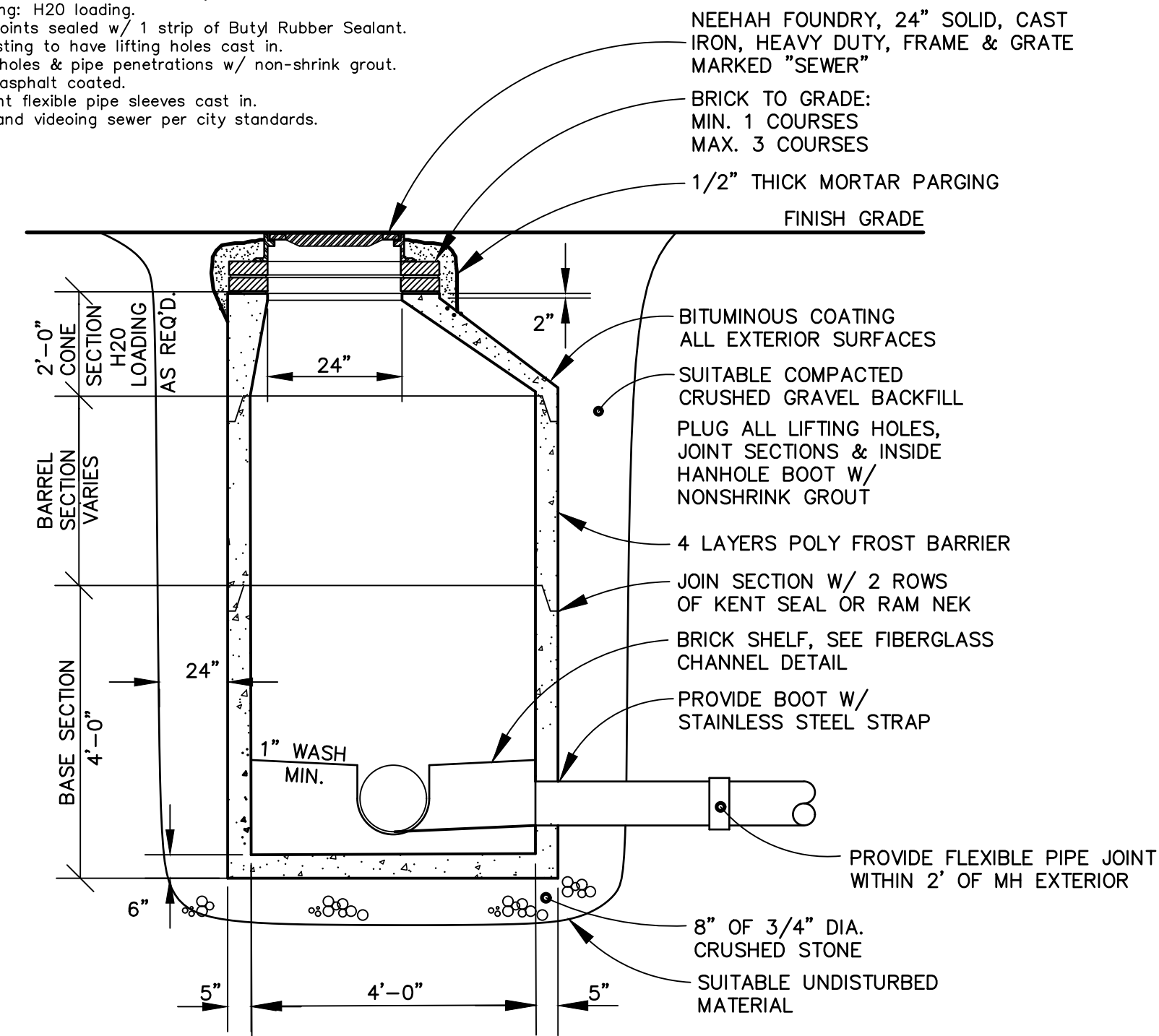
FOR  
Habitat For Humanity York County  
P. O. Box 267  
Kennebunk, Maine 04043

**GRADING PLAN**  
BEAVER HILL SUBDIVISION  
3 BEAVER HILL ROAD  
SPRINGVALE, MAINE

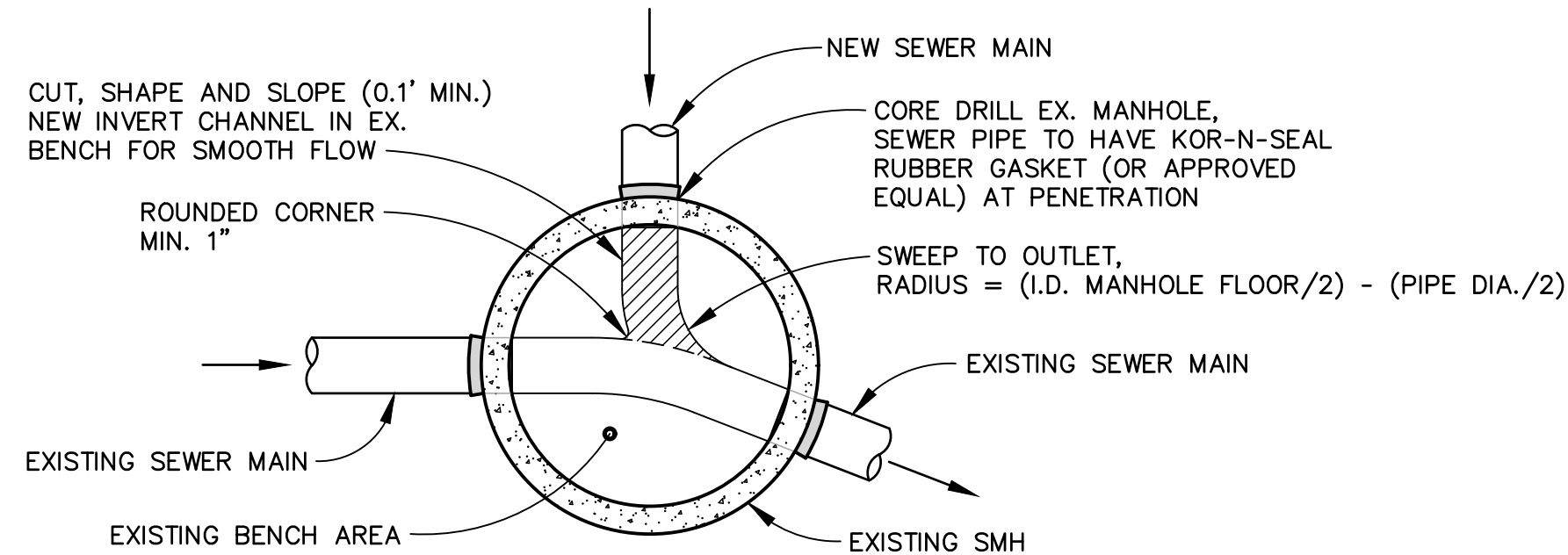
DESIGNED W. Pelkey	DATE Oct. 2024
DRAWN W. Pelkey	SCALE 1" = 20'
CHECKED S. Blake	JOB. NO. 22257

SHEET  
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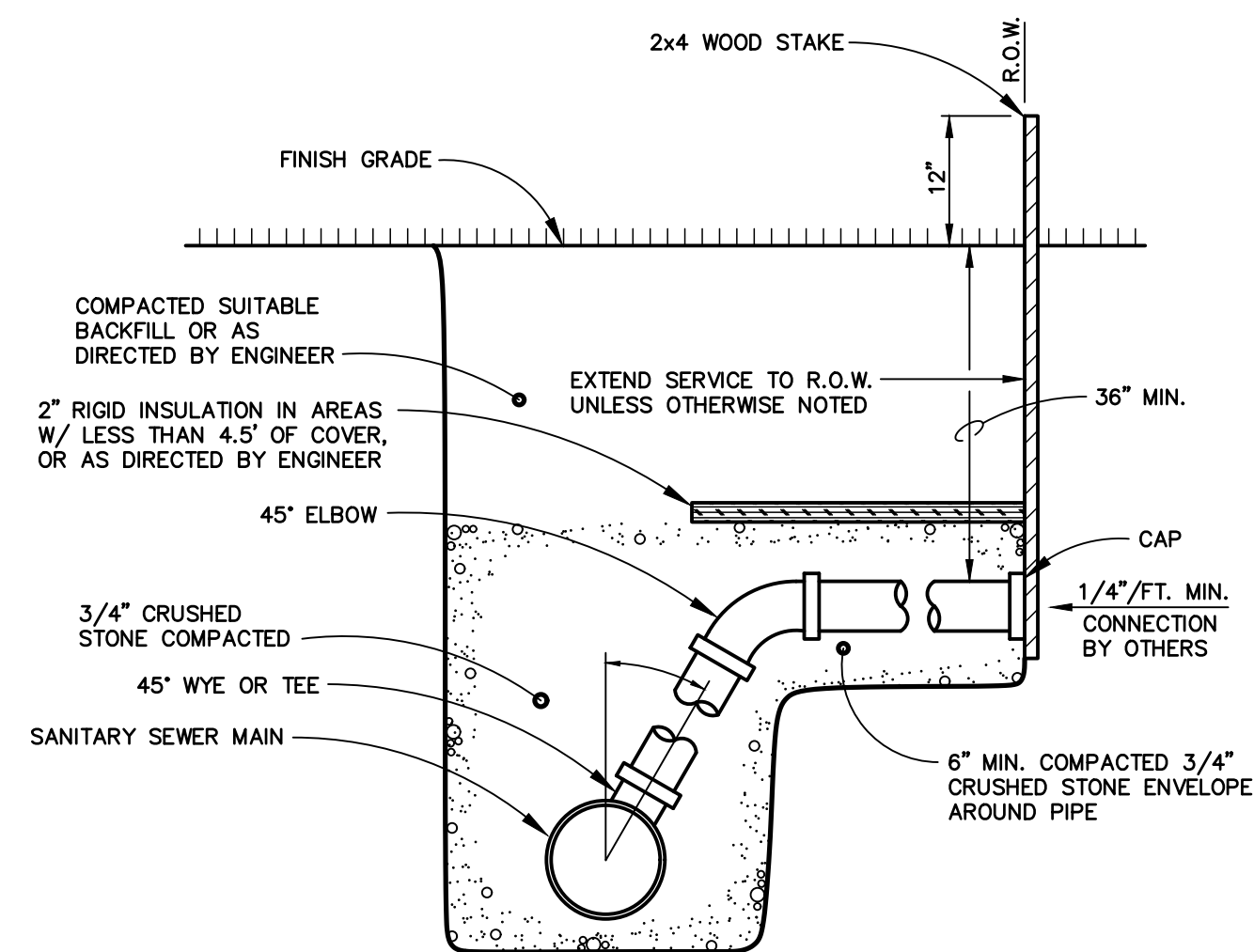
Manhole shall conform to ASTM C478.  
 Concrete: 4,000 PSI after 28 days.  
 Reinforcing: #20 loading.  
 Shiplap joints sealed w/ 1 strip of Butyl Rubber Sealant.  
 Each casting to have lifting holes cast in.  
 Plug all holes & pipe penetrations w/ non-shrink grout.  
 Exterior asphalt coated.  
 Lock joint flexible pipe sleeves cast in.  
 Testing and videoing sewer per city standards.



**PRECAST CONCRETE SANITARY SEWER MANHOLE**  
 N.T.S.



**NEW MAIN CONNECTION TO EXISTING SMH**  
 N.T.S.

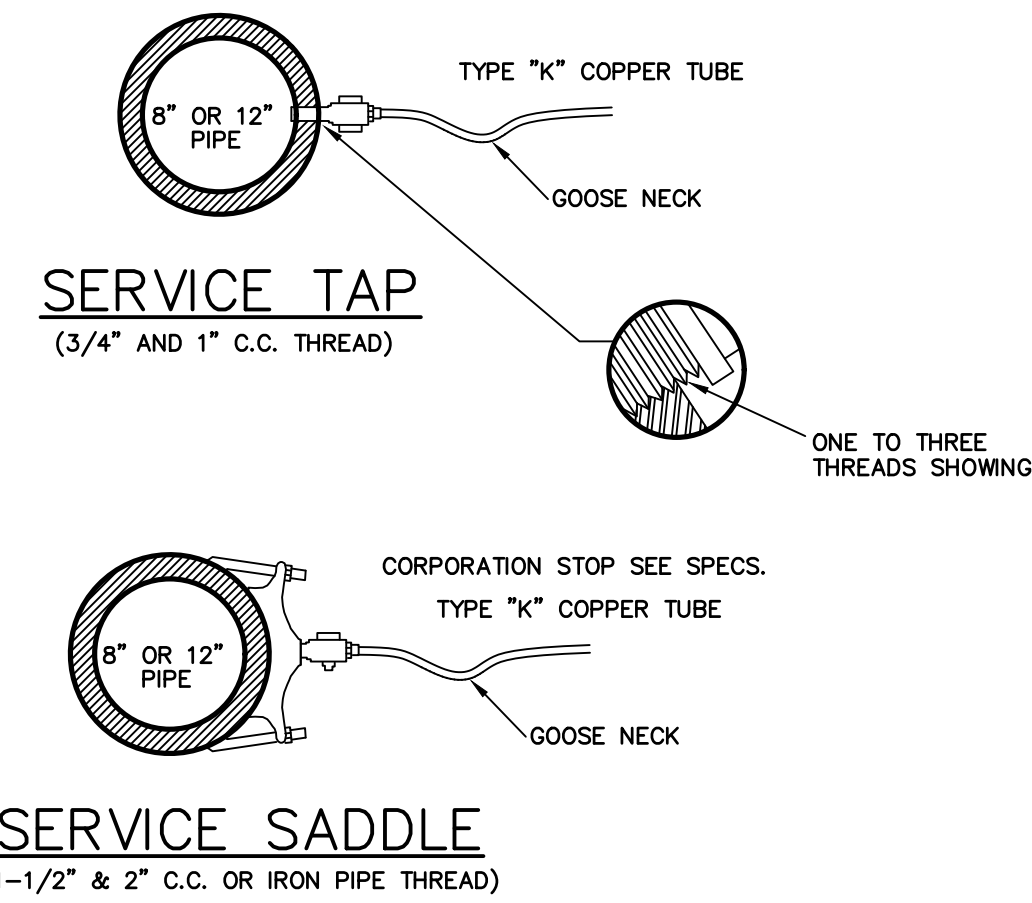


**HORIZONTAL SEWER CONNECTION**  
 N.T.S.

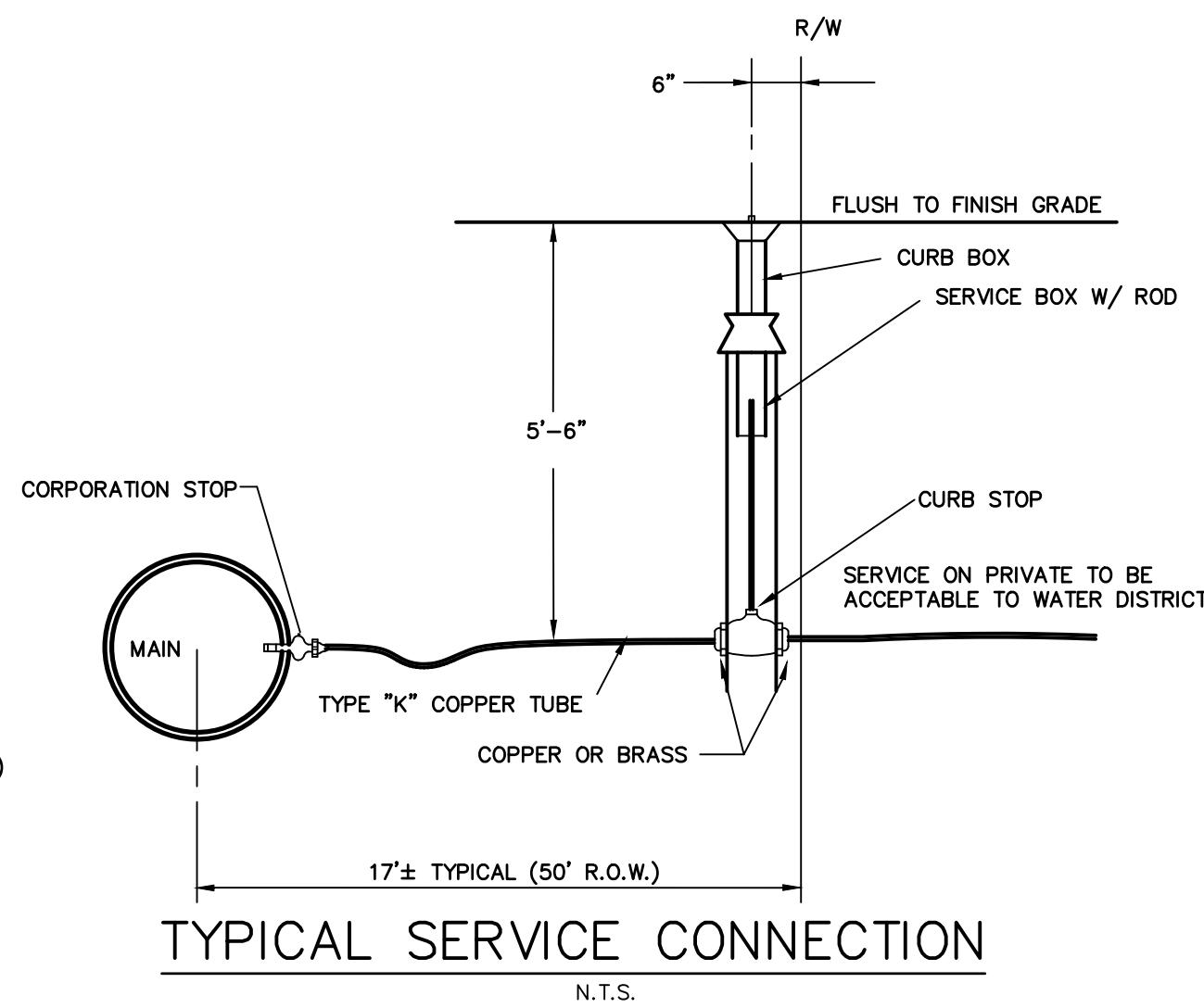
PIPE DIAMETERS MAY VARY, SEE TYPICAL PIPE TRENCH DETAIL.

WHERE 30° MINIMUM ANGLE BETWEEN SEWER CONNECTION AT THE SEWER MAIN AND THE VERTICAL CANNOT BE MAINTAINED, PROVIDE A PRECAST SEWER CHIMNEY.

IF 2x4 STAKE IS CUT OFF FLUSH OR SLIGHTLY BELOW GRADE, PROVIDE MIN. OF 2 16d GALV. SPIKES DRIVEN INTO TOP OF STAKE TO PROVIDE METAL DETECTABILITY

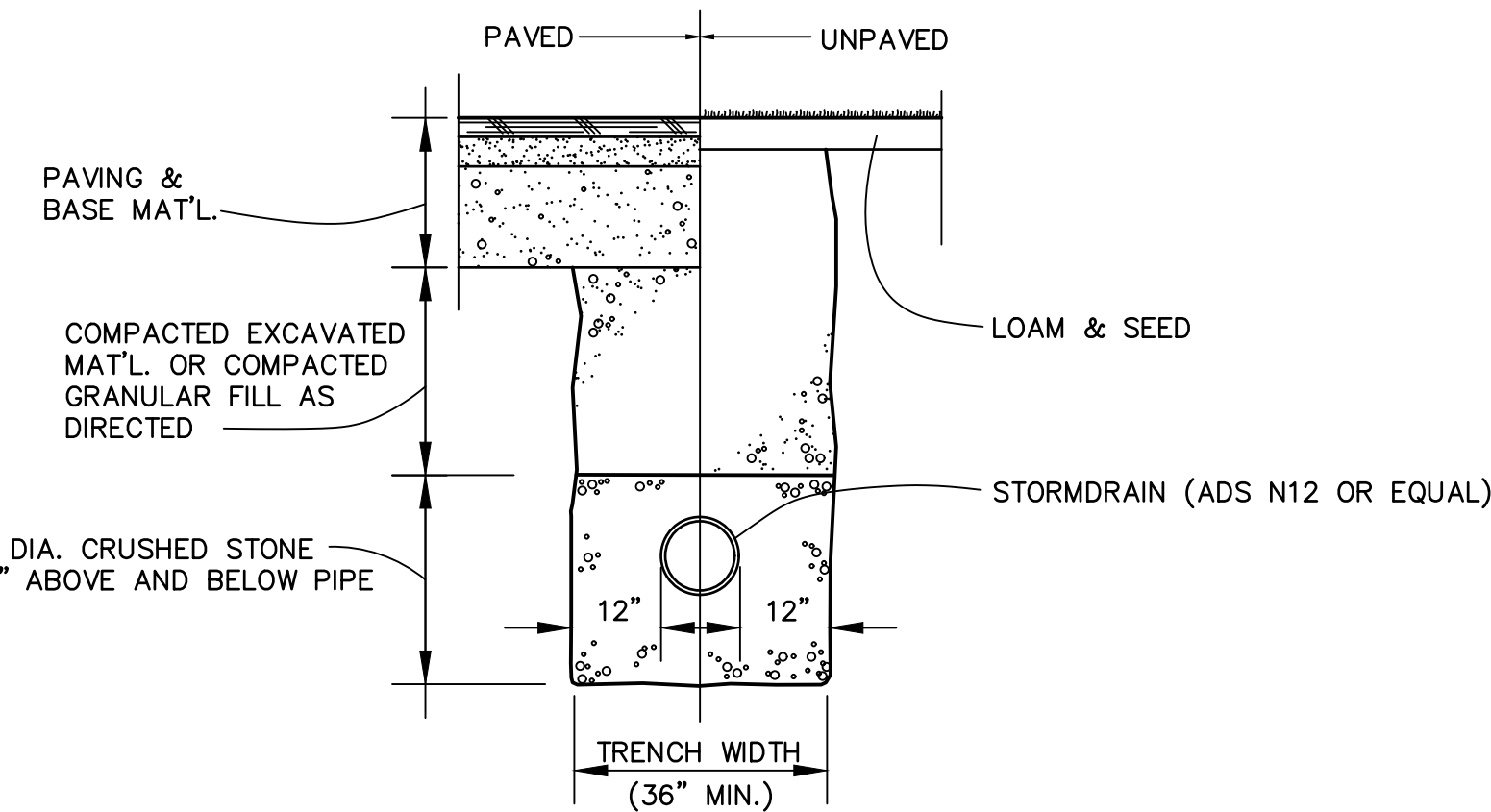


NOTE: SERVICE CONNECTIONS (DIRECT TAPS AND SERVICE CLAMPS) WILL BE INSTALLED SO THAT THE OUTLET IS AT AN ANGLE OF NOT MORE THAN 45° ABOVE THE HORIZONTAL. ALWAYS PUT A BEND OR "GOOSENECK" IN THE SERVICE LINE PRIOR TO CONNECTING TO PROVIDE FLEXIBILITY AND "GIVE" TO COUNTERACT THE EFFECTS OF A LOAD DUE TO SETTLEMENT OR EXPANSION AND/OR CONTRACTION (SEE DETAILS).



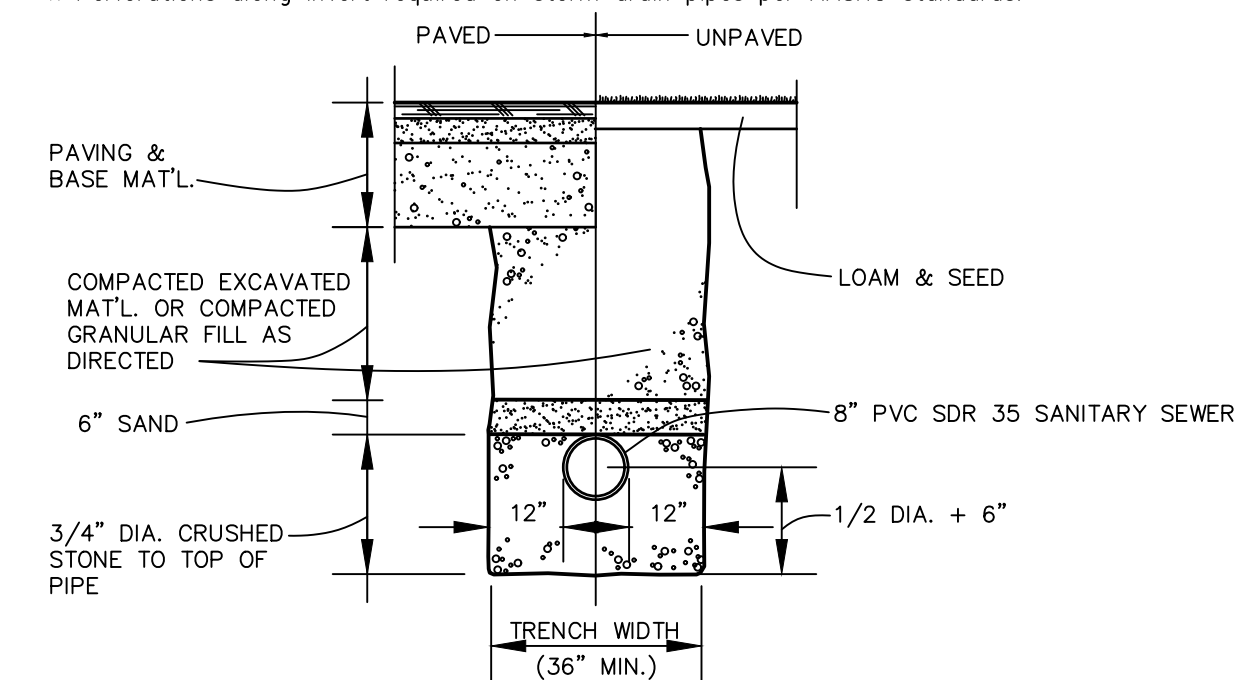
**TYPICAL SERVICE CONNECTION**  
 N.T.S.

- NOTES:
- Trench width shown is payment width for rockexcavation & replacement of unsuitable material.
  - Do not mechanically compact directly over flexible pipe (e.g. PVC, Polyethylene)
  - Concrete pipe shall have sand bedding.

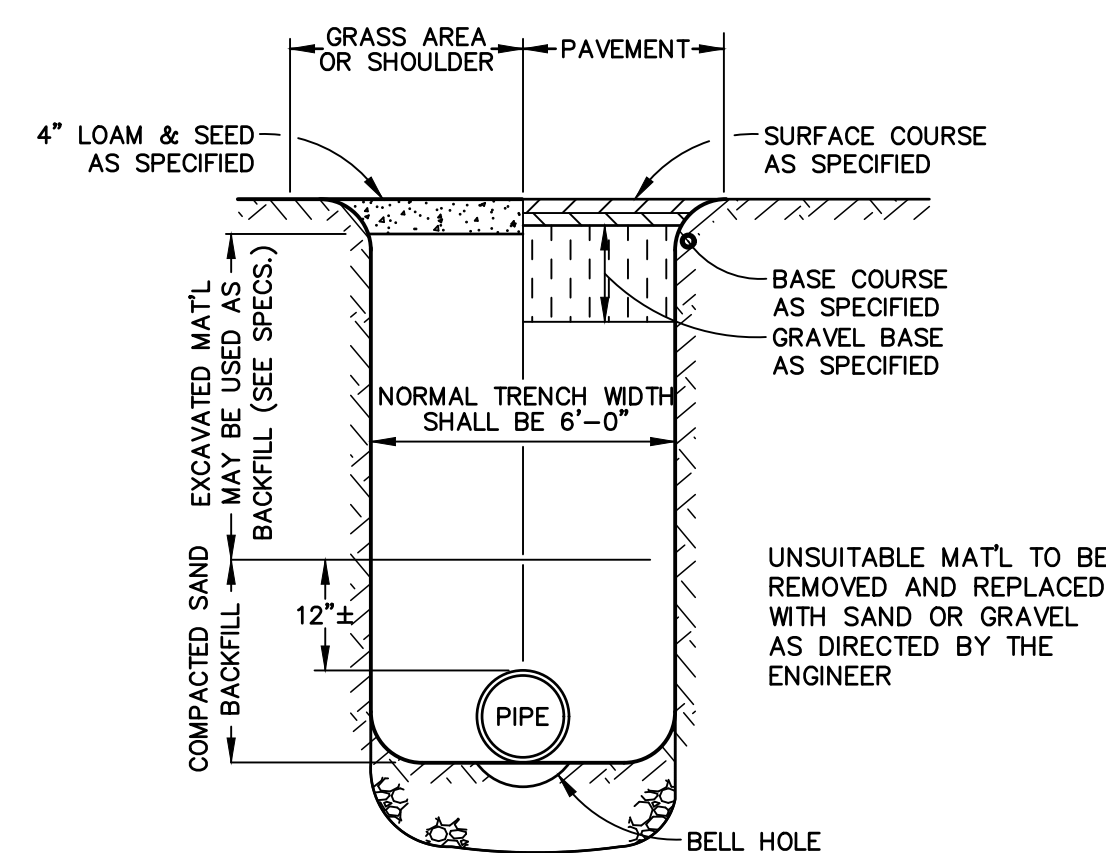


**STORMDRAIN TRENCH DETAIL**  
 N.T.S.

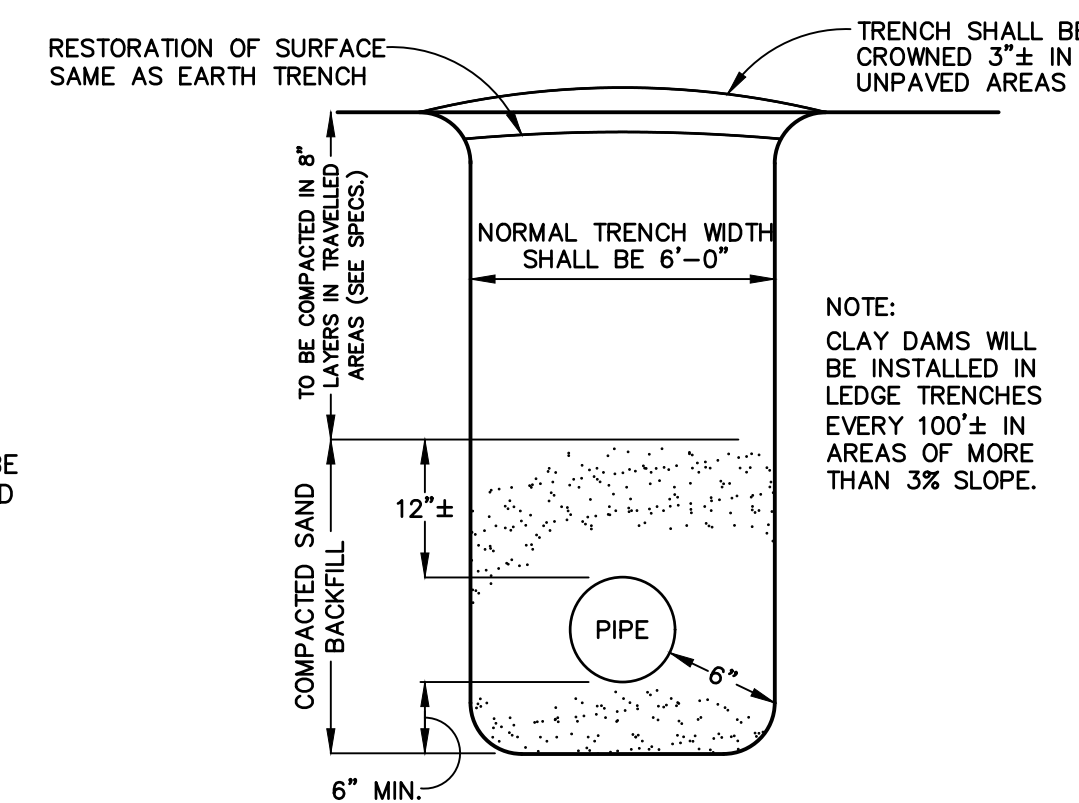
- NOTES:
- Trench width shown is payment width for rockexcavation & replacement of unsuitable material.
  - Do not mechanically compact directly over flexible pipe (e.g. PVC, Polyethylene)
  - Concrete pipe shall have sand bedding.
  - Perforations along invert required on storm drain pipes per AASHTO standards.



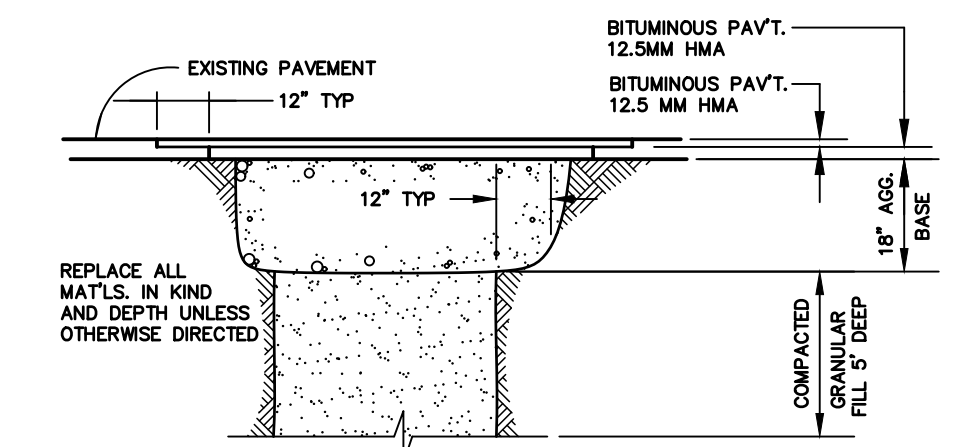
**SEWER TRENCH DETAIL**  
 N.T.S.



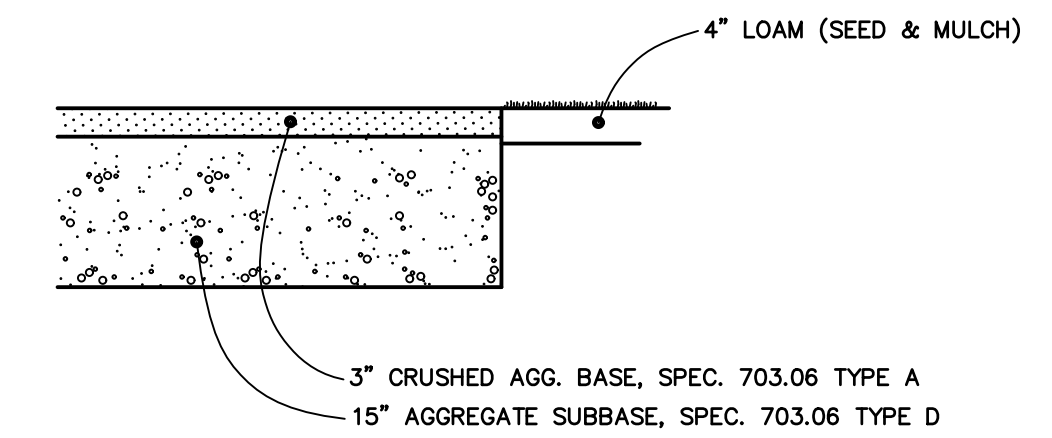
**WATER THROUGH EARTH TRENCH**  
 N.T.S.



**WATER THROUGH LEDGE TRENCH**  
 N.T.S.

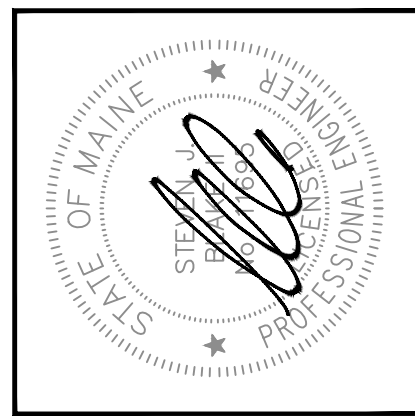


**TRENCH PATCH**  
 N.T.S.



**TYP. DRIVE/PARKING DETAIL**  
 N.T.S.

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FOR  
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**STANDARD DETAILS**

**BEAVER HILL SUBDIVISION**

3 BEAVER HILL ROAD  
 SPRINGVALE, MAINE

DESIGNED W. Pelkey	DATE Oct. 2024
DRAWN W. Pelkey	SCALE None
CHECKED S. Blake	JOB. NO. 22257

SHEET  
**5**

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**EROSION AND SEDIMENT CONTROL PLAN**

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS AS CONTAINED IN THE LATEST REVISION TO THE 2016 MAINE EROSION AND SEDIMENT CONTROL BMP'S MANUAL FOR DESIGNERS AND ENGINEERS, AND THE LATEST REVISION TO THE 2014 MAINE EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONTRACTORS. SEE MANUALS FOR ADDITIONAL INFORMATION AND DETAILS.

DURING CONSTRUCTION THE DEVELOPER/APPLICANT OR THEIR REPRESENTATIVES WILL BE RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL BMP'S AS WELL AS ROUTINE INSPECTIONS AND MAINTENANCE OF THE BMP'S.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE SITE PLAN.

1. ALL CONSTRUCTION INSPECTIONS SHALL BE CONDUCTED BY SOMEONE WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING STANDARDS AND PERMIT CONDITIONS. CONSTRUCTION INSPECTIONS SHALL BE PERFORMED AT LEAST ONCE A WEEK, AND PRIOR TO AND 24 HOURS AFTER A MET WEATHER EVENT (1 INCH OR MORE IN A 24 HOUR PERIOD). CONSTRUCTION INSPECTION AND CORRECTIVE ACTION DOCUMENTATION RECORDS SHALL BE MAINTAINED FOR A MINIMUM OF 5 YEARS.
2. THE SCOPE OF CONSTRUCTION INSPECTIONS INCLUDE THE EROSION AND SEDIMENTATION CONTROL MEASURES AS WELL AS DISTURBED AREAS, MATERIAL STORAGE AREAS, AND LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "MAINE EROSION AND SEDIMENT CONTROL BMP'S", DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST REVISION.
4. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTRATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING AND PERMANENTLY STABILIZED WITHIN 7 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 75 FEET OF A WETLAND OR WATERBODY, THE AREA SHALL BE STABILIZED WITHIN 2 DAYS OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
5. EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
6. EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY.
7. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO MORE THAN ONE ACRE OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION.
8. SEDIMENT BARRIERS (EROSION CONTROL MIX, STONE CHECK DAMS, STABILIZED CONSTRUCTION ENTRANCE, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. THE CONTRACTOR SHALL MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE UNTIL ALL DISTURBED AREAS ARE STABILIZED.
9. ALL SEDIMENT BARRIERS SHOULD BE INSTALLED ALONG THE CONTOUR, WITH THE ENDS TURNED UP SLOPE.
10. INSTALL EROSION CONTROL MIX AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE E.C. MIX DETAIL FOR PROPER INSTALLATION. EROSION CONTROL MIX WILL REMAIN IN PLACE PER NOTE #7. THE USE OF AN EROSION CONTROL MIX BERM IS PROHIBITED AT THE BASE OF SLOPES STEEPER THAN 8:1 OR ON FLOWING WATER. THERE IS FLOWING WATER, THERE IS FLOWING WATER.
11. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED, AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY BEFORE AND FOLLOWING ANY SIGNIFICANT RAINFALL (1.0 INCH OR MORE IN A 24-HOUR PERIOD) OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. IF AN INSPECTION DETERMINES THAT A CORRECTIVE ACTION IS REQUIRED, THE ACTION OR REPAIR SHALL BE COMPLETED BY THE END OF THE NEXT WORKDAY AND COMPLETED WITHIN SEVEN DAYS OR BEFORE THE NEXT STORM EVENT. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY TURF. EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION. PERMANENT STABILIZATION IS 90% GRASS CATCH IN VEGETATED AREAS.
12. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN ONE AND ONE HALF TO ONE (1.5 TO 1).
13. IF FINAL SEEDING OF THE DISTURBED AREA IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCHING (SOAKING SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
14. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED BY AUG. 15 OR 45 DAYS PRIOR TO THE FIRST KILLING FROST (OCT. 1) TO PROTECT FROM SPRING RUNOFF PROBLEMS.
15. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
16. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
  - a. FOUR INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
  - b. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIME IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 POUNDS PER ACRE OR 18.4 POUNDS PER 1,000 SQUARE FEET USING 10-20-20 (N-P20S-K20) OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SQ. FT.).
  - c. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDING TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDING TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SQ. FT. LAWN QUALITY SOO MAY BE SUBSTITUTED FOR SEED. SEED MIX SHALL CONTAIN 10% ANNUAL RYE GRASS.
  - d. HAY MULCH AT THE RATE OF 70-90 LBS PER 1,000 SQUARE FEET FOR OVER 75% COVERAGE. FOR UNPROTECTED OR WINDY AREAS, ANCHOR MULCH WITH PEG AND TWINE (7 SQ. YD./BLOCK). HYDRAULIC MULCHES MAY ALSO BE USED, APPLIED AT A RATE OF 3 LBS PER 1,000 SQUARE FEET FOR PAPER MULCH OR 40 LBS PER 1,000 SQUARE FEET OR AS DIRECTED BY THE MANUFACTURER. ON SLOPES GREATER THAN 3:1 EROSION CONTROL MIX MAY BE USED. SEE EROSION CONTROL MIX NOTES BELOW.
17. FOR DISTURBED AREAS TO BE MAINTAINED IN POST-CONSTRUCTION AS A MEADOW BUFFER, APPLY NEW ENGLAND CONSERVATION WILDLIFE MIX BY NEW ENGLAND WETLAND PLANTS, INC. OF AMHERST, MASSACHUSETTS OR APPROVED EQUAL.
18. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS ONCE THE SITE IS STABILIZED WITH 90% GRASS CATCH IN VEGETATED AREAS. TEMPORARY EROSION AND SEDIMENT CONTROL BLANKET SHALL BE USED IN ALL DITCHES AND SWALES AS SHOWN IN DETAILS.
19. WETLANDS WILL BE PROTECTED WITH A DOUBLE ROW OF EROSION CONTROL MIX OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE. ALL AREAS WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS TABING WATER CONTROL.
20. ALL STORMWATER WILL BE PREVENTED FROM RUNNING ONTO STOCKPILES. SEDIMENT BARRIERS WILL BE INSTALLED DOWNDRAGMENT OF ALL STOCKPILES.
21. PERMANENT POST-CONSTRUCTION BMP'S (VEGETATED SWALES, WET PONDS, ETC.) WILL NOT BE USED TO MANAGE FLOWS DURING CONSTRUCTION WITHOUT SPECIAL PROTECTION AND/OR RESTORATION.

**ADDITIONAL TEMPORARY SEED MIXTURE (FOR PERIODS LESS THAN 12 MONTHS)**

SEASON	SEED	RATE
SUMMER (5/15 - 8/15)	SUDANGRASS	40 LBS/ACRE
LATE SUMMER/EARLY FALL (8/15 - 9/15)	DATS	80 LBS/ACRE
FALL (9/15 - 11/1)	PERENNIAL RYEGRASS	40 LBS/ACRE
WINTER (11/1 - 4/1)	WINTER RYE	112 LBS/ACRE
WINTER (11/1 - 4/1)	MULCH W/ DORMANT SEED	80 LBS/ACRE**
SPRING (4/1 - 7/1)	DATS	80 LBS/ACRE
	ANNUAL RYEGRASS	40 LBS/ACRE

\*\*SEED RATE ONLY

**EROSION CONTROL MIX**

EROSION CONTROL MIX (ECM) SHALL MEET THE REQUIREMENTS PROVIDED IN THE LATEST REVISION OF MAINE DEP'S EROSION AND SEDIMENTATION CONTROL BMP MANUAL. ECM IS ACCEPTABLE FOR USE ON SLOPES OF GREATER THAN 3:1 BUT LESS THAN 2:1. ECM SHALL CONSIST OF WELL-SORTED ORGANIC COMPONENT 50 - 100% OF DRY WEIGHT, AND COMPRISED OF FIBROUS AND ELONGATED FRAGMENTS. ECM SHALL BE FREE FROM REFUSE, MATERIAL TOXIC TO PLANT GROWTH OR CONSTRUCTION DEBRIS. ECM SHALL BE EVENLY DISTRIBUTED AND APPLIED AT A THICKNESS OF 2" ON 3:1 SLOPES, WITH AN ADDITIONAL 1/2" PER 20' OF SLOPE FOR A MAXIMUM OF 100' IN LENGTH. SLOPES GREATER THAN 3:1, ECM SHALL BE APPLIED AT THICKNESS OF 4" OR 5" FOR SLOPES GREATER THAN 60' IN LENGTH.

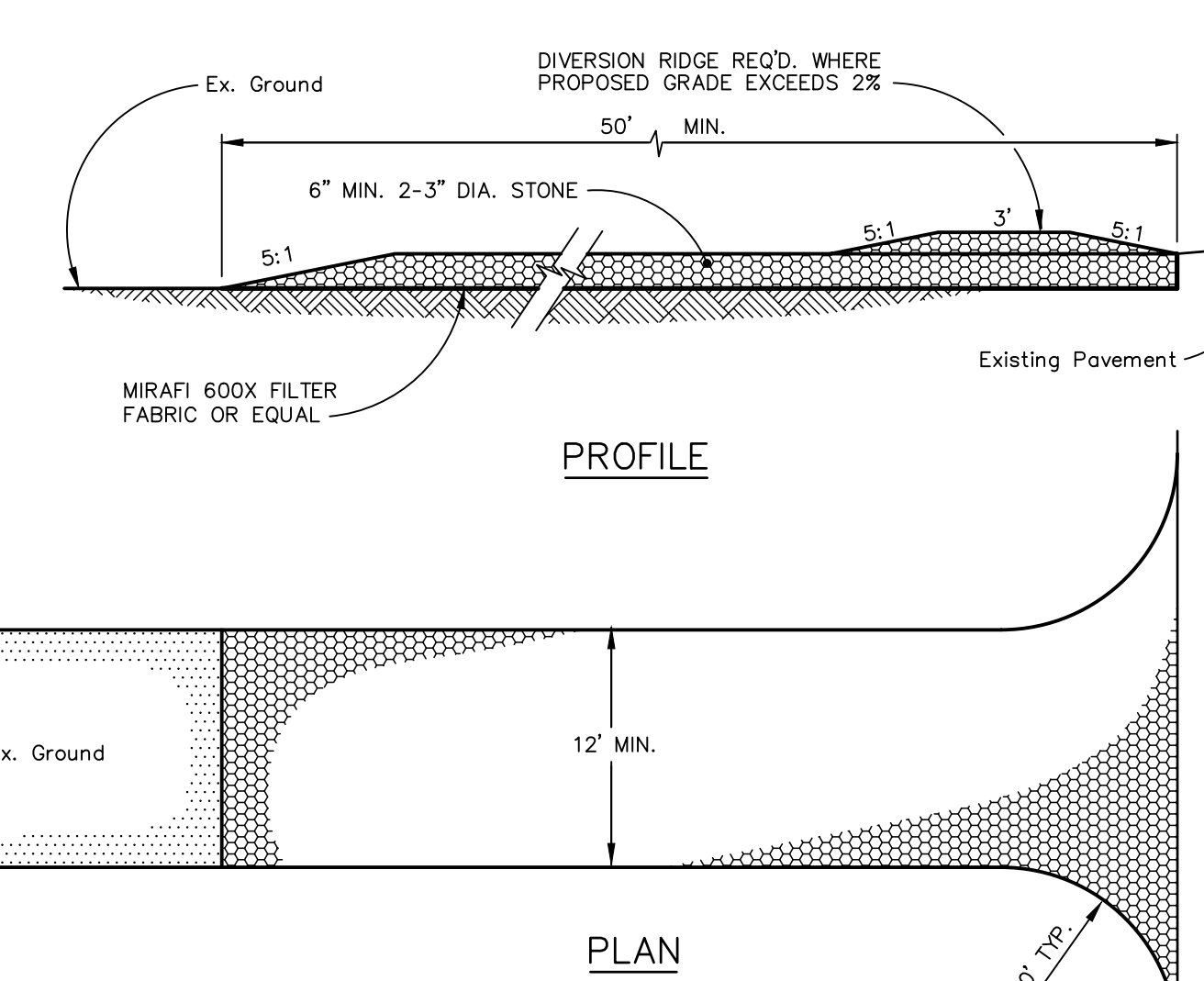
NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN ONE AND ONE HALF TO ONE (1.5:1). EROSION CONTROL MIX IS AN ACCEPTABLE STABILIZATION MEASURE FOR SLOPES UP TO 3:1, WITH LIMITS THAT ARE COVERED BY NOTES ON THIS SHEET. SLOPES BETWEEN 3:1 AND 2:1 SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS, AND ALL SLOPES GREATER THAN 2:1 SHALL BE STABILIZED WITH RIPRAP. SEE SLOPE STABILIZATION DETAIL FOR ADDITIONAL INFORMATION.

**EROSION CONTROL DURING CONSTRUCTION**

**WINTER CONSTRUCTION**

1. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15
2. OVERWINTER STABILIZATION OF DITCHES AND CHANNELS: ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. ALL GRASS LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 1. IF A DITCH OR CHANNEL IS NOT GRASS-LINED BY SEPTEMBER 1, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN TO STABILIZE THE DITCH FOR LATE FALL AND WINTER.
  - A. INSTALL A SOO LINING IN THE DITCH: A DITCH MUST BE LINED WITH PROPERLY INSTALLED SOO BY OCTOBER 1. PROPER INSTALLATION INCLUDES: PINNING THE SOO ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOO TO GUARANTEE CONTACT BETWEEN THE SOO AND UNDERLYING SOIL, AND WATERING THE SOO TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. AND ANCHORING SOO AT THE BASE OF THE DITCH WITH JUTE OR PLASTIC MESH TO PREVENT THE SOO FROM SLOUGHING DURING FLOW CONDITIONS. SEE THE PERMANENT VEGETATION BMP SECTION.
  - B. INSTALL A STONE LINING IN THE DITCH: A DITCH MUST BE LINED WITH STONE RIPRAP BY NOVEMBER 15. A REGISTERED PROFESSIONAL ENGINEER MUST BE HIRED TO DETERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW VOLUMES IN THE DITCH. IF NECESSARY, THE CONTRACTOR WILL REGRADE THE DITCH PRIOR TO PLACING THE STONE LINING SO TO PREVENT THE STONE LINING FROM REDUCING THE DITCH'S CROSS-SECTIONAL AREA.
3. OVERWINTER STABILIZATION OF DISTURBED SLOPES: ALL STONE-COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. ALL SLOPES TO BE VEGETATED MUST BE SEEDED AND MULCHED BY SEPTEMBER 1. THE DEPARTMENT WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 10% TO BE A SLOPE. IF A SLOPE IS NOT VEGETATED BY SEPTEMBER 1, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER: STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MIX. BY OCTOBER 1, THE DISTURBED SOIL MUST BE SEEDING WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND THEN INSTALL EROSION CONTROL MATS OR ANCHORED MULCH OVER THE RYE FALS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE SLOPE BY NOVEMBER 1, THEN THE CONTRACTOR WILL COVER THE SLOPE WITH A LAYER OF EROSION CONTROL MIX OR WITH STONE RIPRAP AS DESCRIBED IN THE FOLLOWING STANDARDS.
  - A. STABILIZE THE SOIL WITH SOO: THE DISTURBED SOIL MUST BE STABILIZED WITH PROPERLY INSTALLED SOO BY OCTOBER 1. PROPER INSTALLATION INCLUDES: PINNING THE SOO ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOO TO GUARANTEE CONTACT BETWEEN THE SOO AND UNDERLYING SOIL, AND WATERING THE SOO TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE CONTRACTOR WILL NOT USE LATE SEASON SOO INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 3:1 (2H:1V) OR HAVING GREAT GROUNDWATER SEEPS ON THE SLOPE FACE.
  - B. STABILIZE THE SOIL WITH EROSION CONTROL MIX: EROSION CONTROL MIX MUST BE PROPERLY INSTALLED BY NOVEMBER 15. THE CONTRACTOR WILL NOT USE EROSION CONTROL MIX TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 3:1 (2H:1V) OR HAVING GREAT GROUNDWATER SEEPS ON THE SLOPE FACE. SEE THE EROSION CONTROL MIX NOTES FOR ADDITIONAL CRITERIA.
  - C. STABILIZE THE SOIL WITH STONE RIPRAP: PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE DEVELOPMENTS OWNER WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY ON THE SLOPE AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.
4. OVERWINTER STABILIZATION OF DISTURBED SLOPES: IF THE SLOPE IS DISTURBED WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND MUST BE SEEDING AND MULCHED BY SEPTEMBER 1. THE DEPARTMENT WILL CONSIDER ANY AREA HAVING A SLOPE LESS THAN 10% MUST BE SEEDING AND MULCHED. IF THE DISTURBED AREAS ARE NOT STABILIZED BY THIS DATE, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.
  - A. STABILIZE THE SOIL WITH TEMPORARY VEGETATION: BY OCTOBER 1, SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET. LIGHTLY MOW THE SEEDING. ANCHOR THE MULCH WITH WIRE PINS, ROLLING THE MULCH TO GUARANTEE CONTACT BETWEEN THE MULCH AND UNDERLYING SOIL. ANCHOR GROWTH OF THE RYE. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 90% OF THE DISTURBED SOIL BY NOVEMBER 1, THEN MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED BELOW.
  - B. STABILIZE THE SOIL WITH SOO: STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOO BY OCTOBER 1. PROPER INSTALLATION INCLUDES: PINNING THE SOO ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOO TO GUARANTEE CONTACT BETWEEN THE SOO AND UNDERLYING SOIL, AND WATERING THE SOO TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.
  - C. STABILIZE THE SOIL WITH MULCH: BY NOVEMBER 15, SEED THE DISTURBED SOIL WITH SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. IMMEDIATELY AFTER APPLYING THE MULCH, ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL. PROVIDE NETTING ON ALL SLOPES GREATER THAN 3:1.
5. MAINTENANCE: IF AN INSPECTION DETERMINES THAT A CORRECTIVE ACTION IS REQUIRED, THE ACTION OR REPAIR SHALL BE STARTED BY THE END OF THE WORKDAY AND COMPLETED BY THE END OF THE NEXT WORKDAY. BEFORE THE NEXT STORM EVENT, MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON, ONCE A WEEK AND BEFORE AND AFTER EACH RAINFALL. SNOW REMOVAL AND SNOW STORAGE SHALL BE PERFORMED BY THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND REPAIR REPAIRS AS NEEDED TO INSURE THEIR CONTINUOUS FUNCTION. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL IN REPAIR, REPAIR AND REPAIR ANY DAMAGES AND/OR BARE SPOTS. AN ESTABLISHED VEGETATIVE COVER MEANS A MINIMUM OF 85% OF AREAS VEGETATED WITH VIGOROUS GROWTH.

- STABILIZATION SCHEDULE BEFORE WINTER:**
- SEPTEMBER 15 ALL DISTURBED AREAS MUST BE SEEDING AND MULCHED. ALL STONE-LINED DITCHES AND CHANNELS MUST BE STABILIZED WITH MULCH OR AN EROSION CONTROL BLANKET.
- OCTOBER 1 IF THE SLOPE IS DISTURBED WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND MUST BE SEEDING AND MULCHED. ALL DISTURBED AREAS TO BE PROTECTED WITH AN ANNUAL GRASS MUST BE SEEDING AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND MULCHED.
- NOVEMBER 15 ALL STONE LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED. SLOPES THAT ARE COVERED WITH RIPRAP MUST BE CONSTRUCTED BY THAT DATE.
- DURING WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
- AREAS WITHIN 75 FEET OF STREAMS, WETLANDS, AND OTHER PROTECTED NATURAL RESOURCES THAT ARE NOT STABILIZED WITH VEGETATION BY DEC. 1 SHALL BE MULCHED AND ANCHORED WITH NETTING. IF WORK CONTINUES IN THIS AREA DURING THE WINTER, A DOUBLE LINE SEDIMENT BARRIERS MUST BE USED.
- HOUSEKEEPING**
1. SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS 1. ON SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
  2. GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MUST 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. MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
  3. FUGITIVE SEDIMENT AND DUST: ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL. ANY OFFSITE TRACKING OF MUD OR SEDIMENT SHALL BE VACUUMED IMMEDIATELY AND PRIOR TO THE NEXT SIGNIFICANT STORM EVENT.
  4. DEBRIS AND OTHER MATERIALS: LITTER, CONSTRUCTION DEBRIS, AND CHEMICALS EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
  5. TRENCH OR FOUNDATION DE-WATERING: TRENCH DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COVER FOUNDATIONS, COVER DAMS, POND, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER MUST BE REMOVED FROM THE PONDING AREA, EITHER THROUGH GRAVITY OR PUMPING, AND MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COTTERN SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.
  6. NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES, WHERE ALLOWED NON-STORMWATER DISCHARGES 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:
    - DISCHARGES FROM FIREFIGHTING ACTIVITY;
    - FIRE HYDRANT FLUSHINGS;
    - VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED);
    - DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS AND APPENDIX (C)(3) OF MAINE DEP 06-096 CHAPTER 500;
    - ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS;
    - 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;
    - UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
    - UNCONTAMINATED GROUNDWATER OR SPRING WATER;
    - FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED;
    - UNCONTAMINATED EXCAVATION DEWATERING (SEE REQUIREMENTS IN APPENDIX (C)5) MAINE DEP 06-096 CHAPTER 500;
    - POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND
    - LANDSCAPE IRRIGATION.
  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 (C)(6) MAINE DEP 06-096 CHAPTER 500. SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:
    - WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS;
    - FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
    - SOAPS, SOLVENTS, DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND
    - TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.
  8. ADDITIONAL REQUIREMENTS: ADDITIONAL REQUIREMENTS MAY BE APPLIED ON A SITE-SPECIFIC BASIS.



**NOTES:**

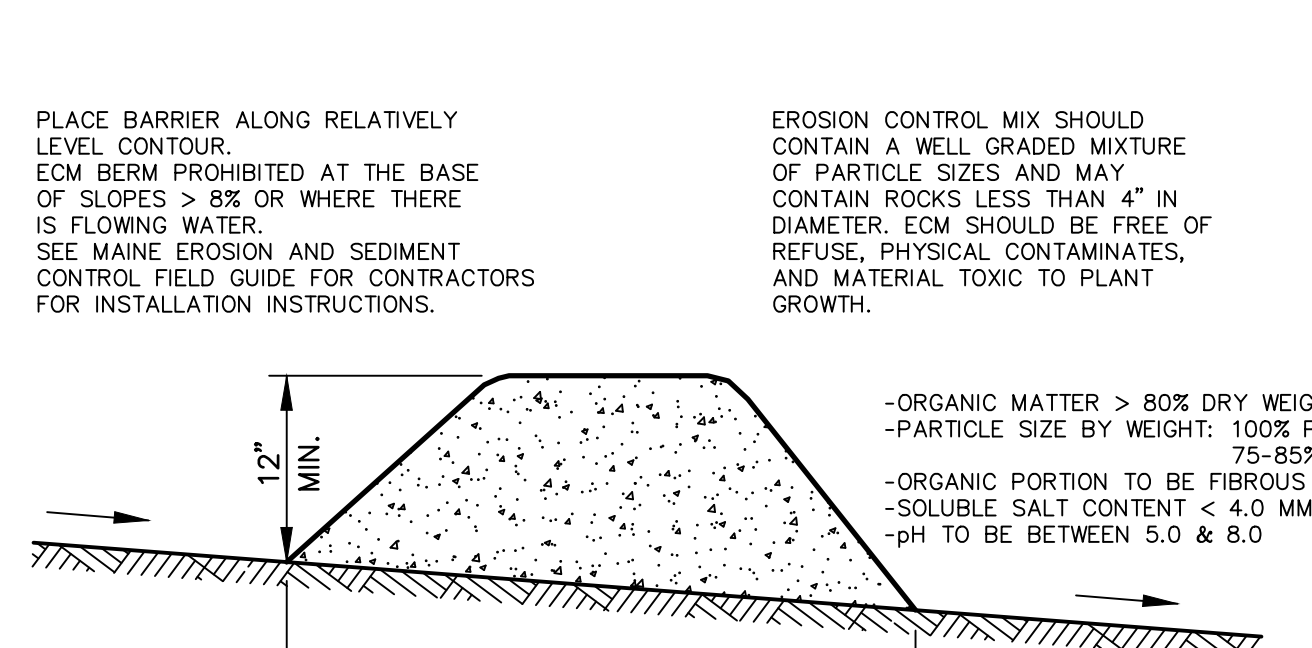
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY.

WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

**STABILIZED CONSTRUCTION ENTRANCE**

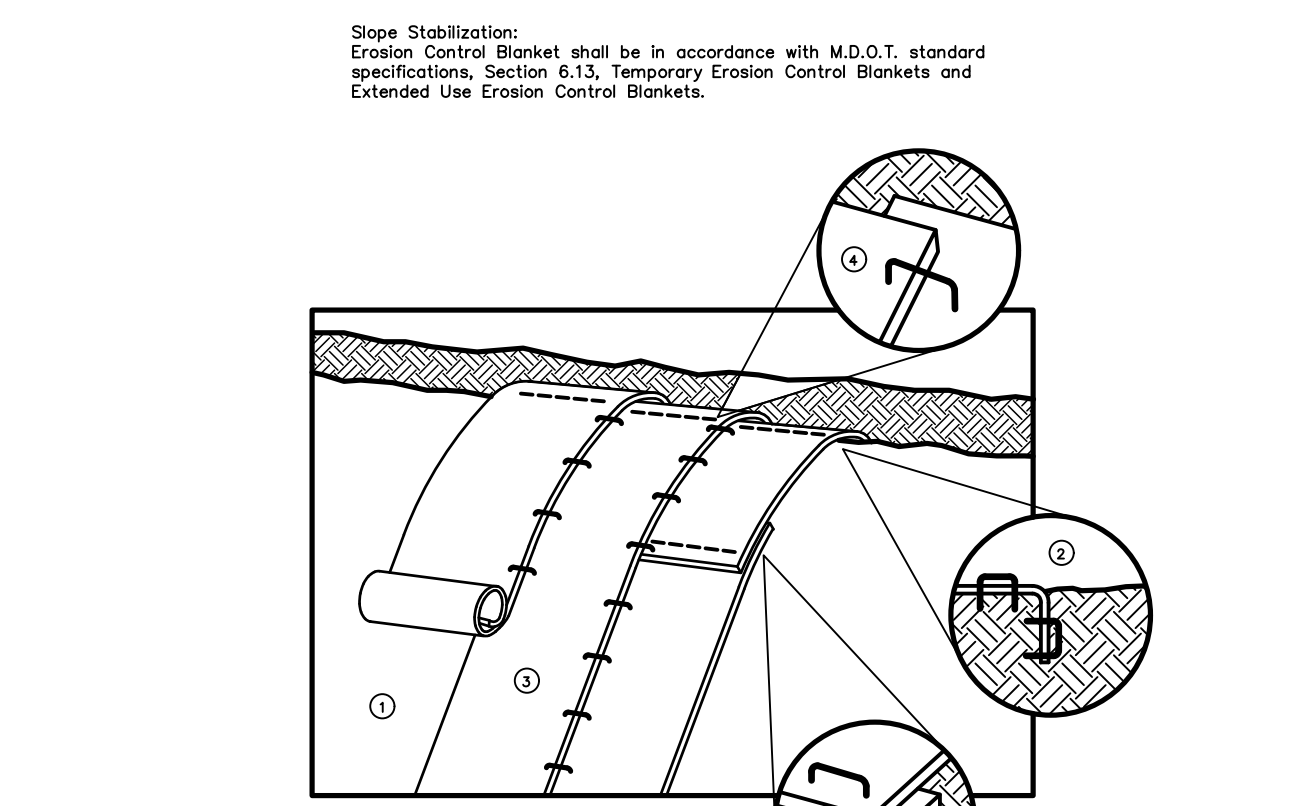
N.T.S.



**EROSION CONTROL MIX BERM**

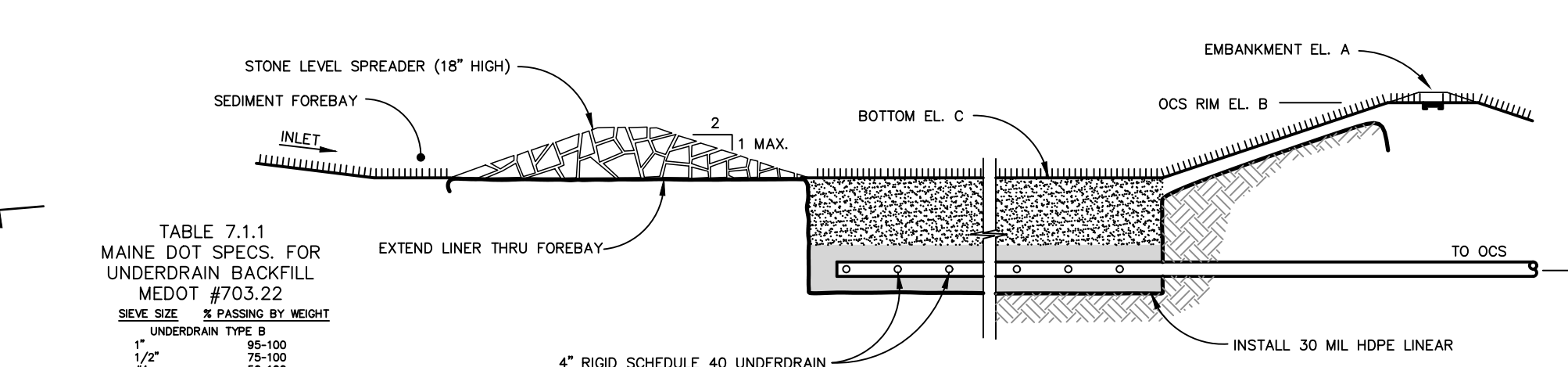
N.T.S.

1. Prepare soil before installing blankets.
2. Begin at top of slope by anchoring blanket in 6' x 6' trench. Backfill & compact trench after stapling.
3. Roll blankets down or horizontally across slope.
4. The edges of parallel blankets must be stapled with approx. 2' overlap.
5. When blankets must be spilled down the slope, place blankets end over end (shingle style) with approx. 4' overlap. Staple through overlapped area, approx. 12' apart.



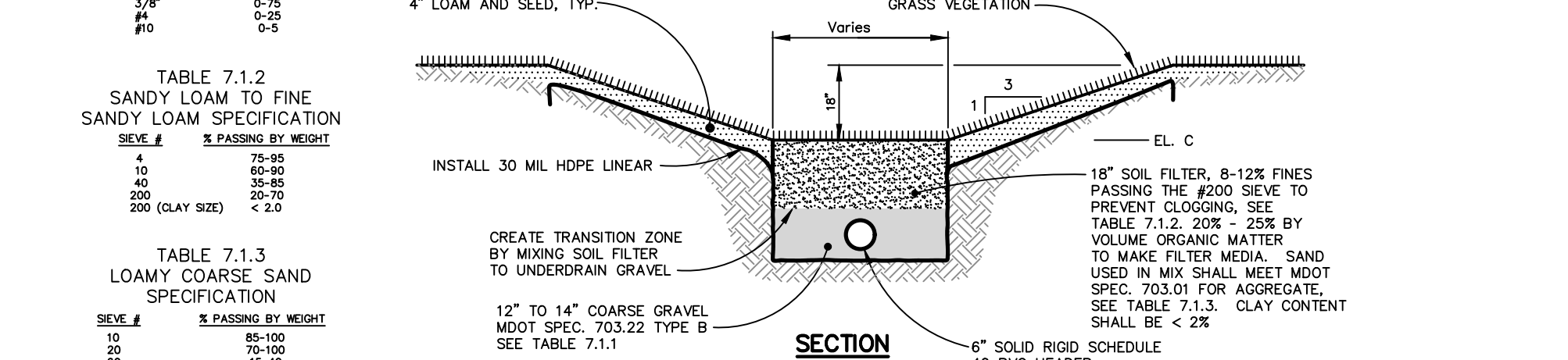
**Slope Stabilization Detail**

N.T.S.



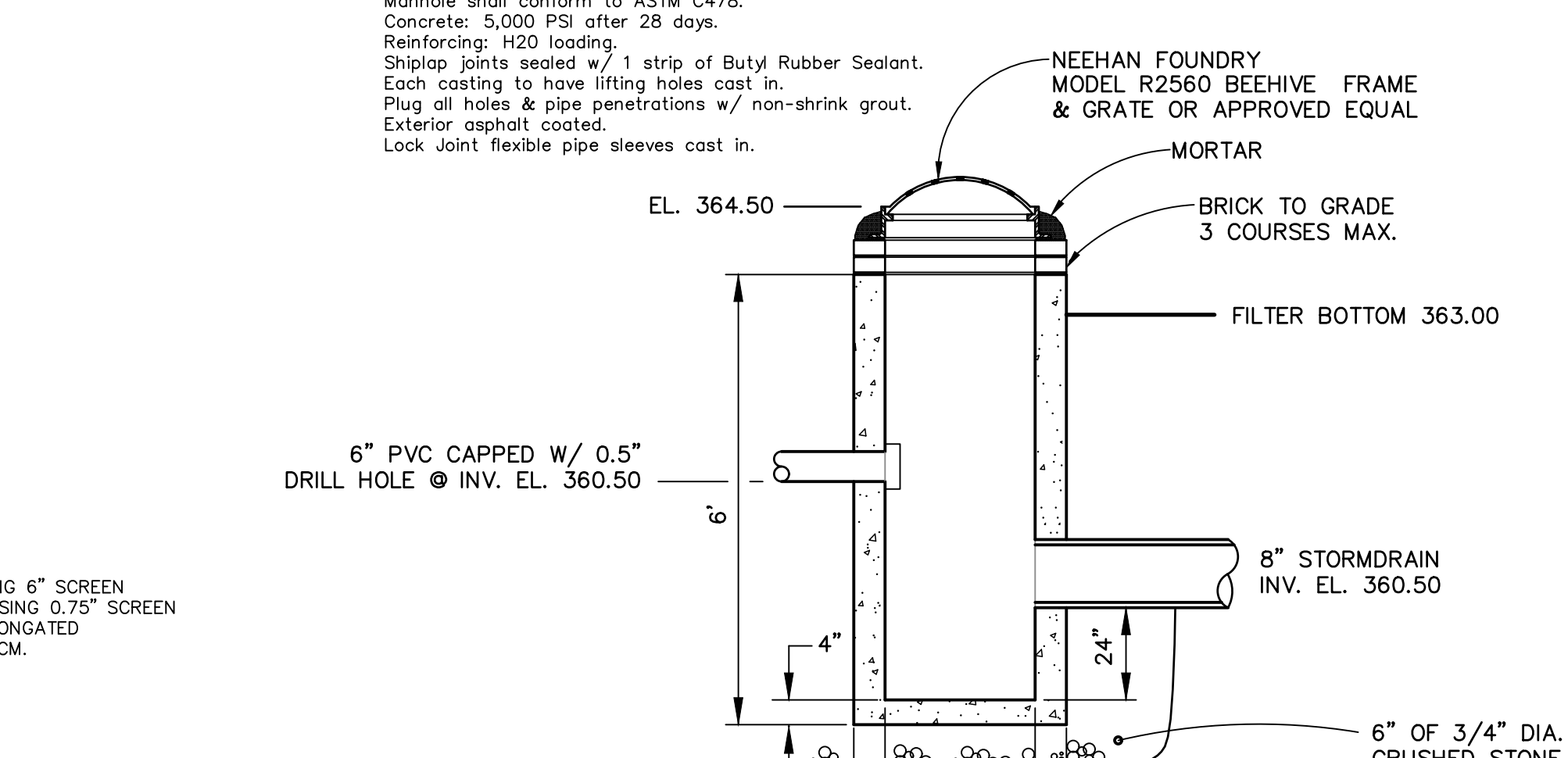
**TABLE 7.1.1 MAINE DOT SPECS. FOR UNDERDRAIN BACKFILL MEDOT #03.22**

SEIVE SIZE	% PASSING BY WEIGHT
UNDERDRAIN TYPE C	
1/2"	95-100
3/4"	75-100
#20	50-100
#40	25-85
#60	10-75
#100	5-65



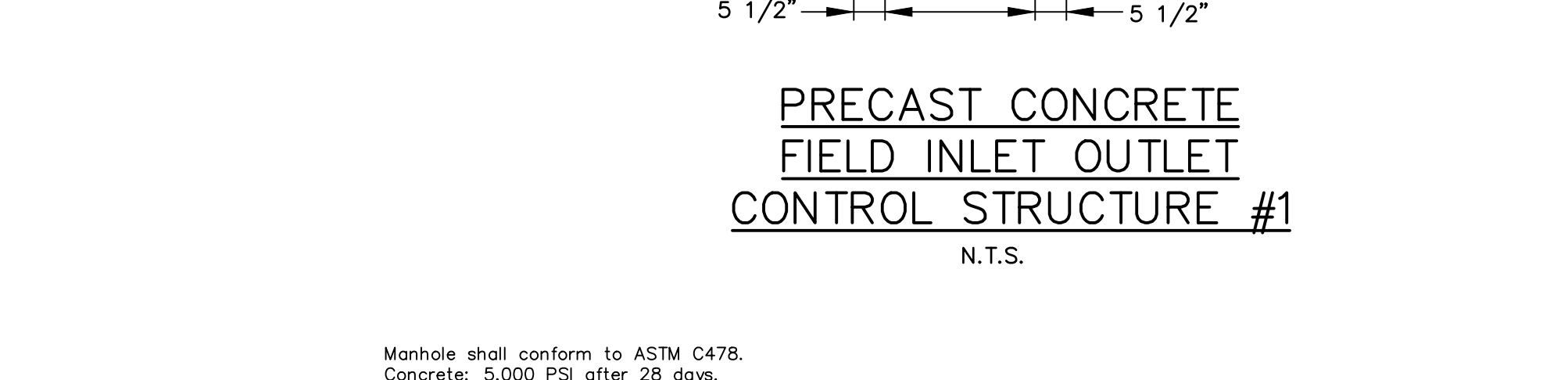
**PRECAST CONCRETE FIELD INLET OUTLET CONTROL STRUCTURE #1**

N.T.S.



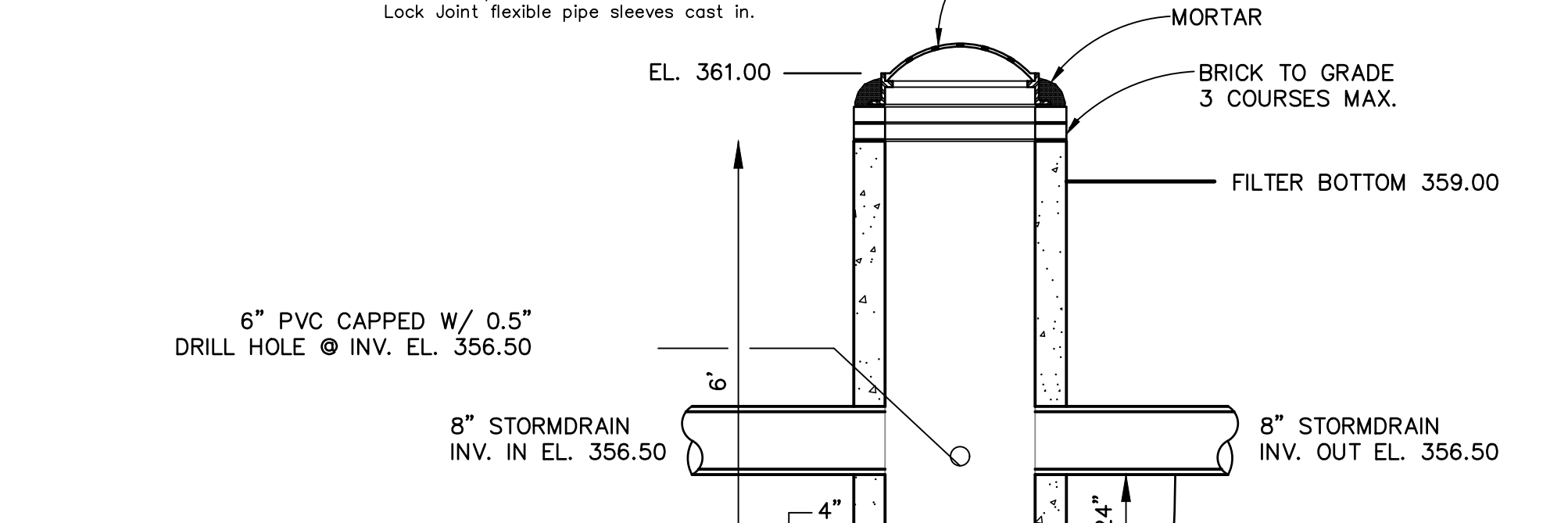
**PRECAST CONCRETE FIELD INLET OUTLET CONTROL STRUCTURE #2**

N.T.S.



**PIPE INLET/OUTLET PROTECTION**

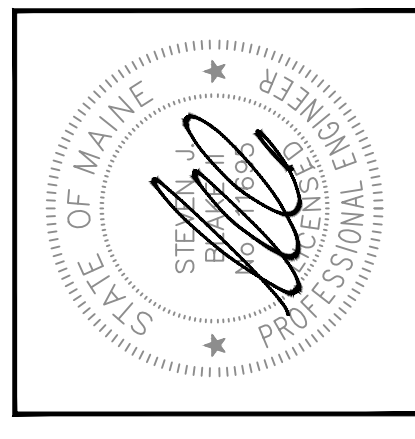
N.T.S.



**SEDIMENT FOREBAY**

N.T.S.

NO.	DATE	DESCRIPTION
1	10/31/24	Submitted to City of Sanford for Review
2	11/12/24	Rev'd. Plan Set - Subdivision Plan
3	11/26/24	Revised Per City Comments



**BH2M**

Berry, Huff, MacDonald, Miliffigan Inc.  
Engineers, Surveyors

3808 Main Street  
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Tel: (207) 859-2771  
www.bh2m.com

FOR  
Habitat For Humanity York County  
P. O. Box 267  
Kennebunk, Maine 04043

**STORMWATER & EROSION CONTROL DETAILS**

BEAVER HILL SUBDIVISION

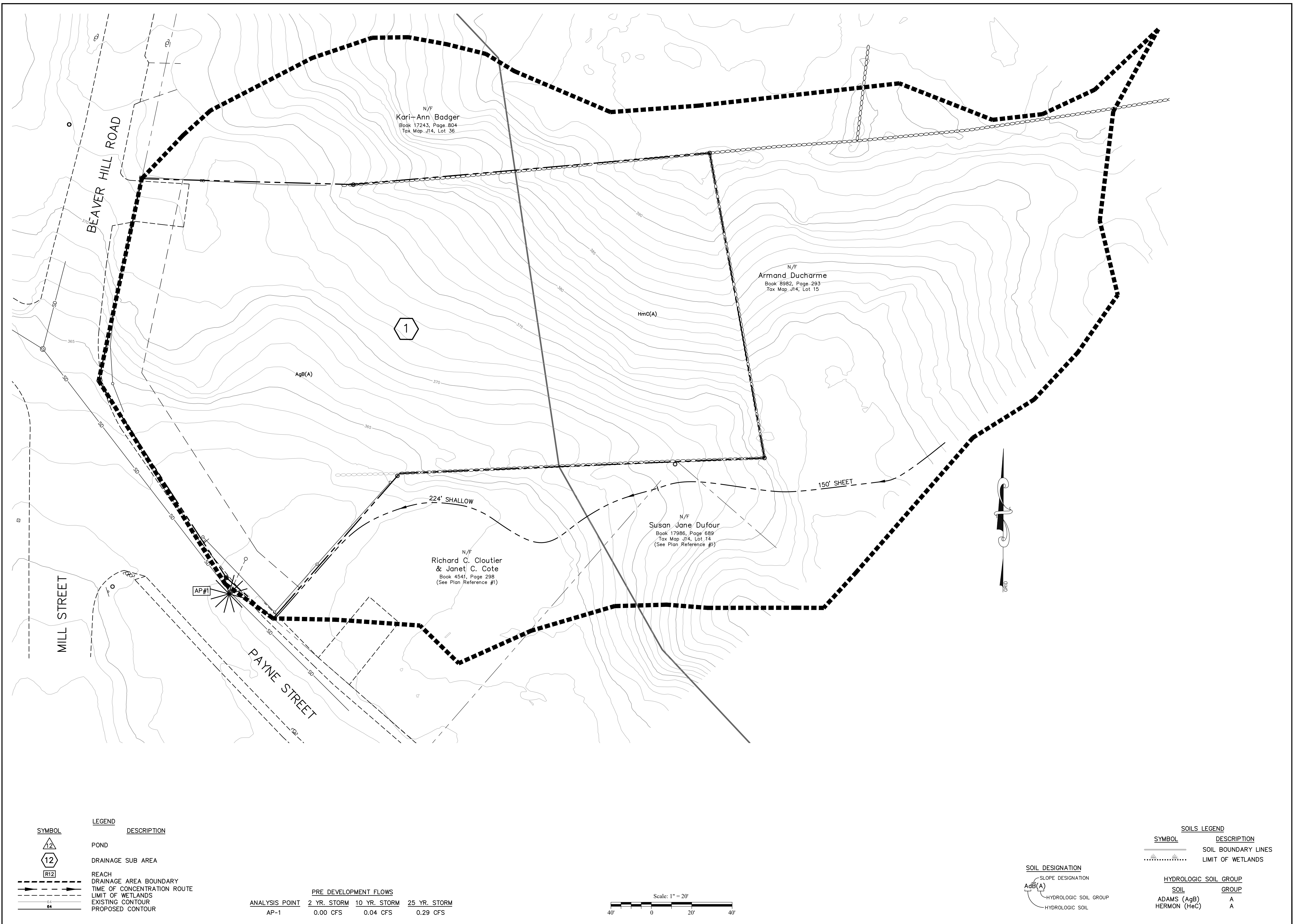
3 BEAVER HILL ROAD  
SPRINGVALE, MAINE

DESIGNED	DATE
W. Pelkey	Oct. 2024
DRAWN	SCALE
Dept.	None
CHECKED	JOB. NO.
S. Blake	22257

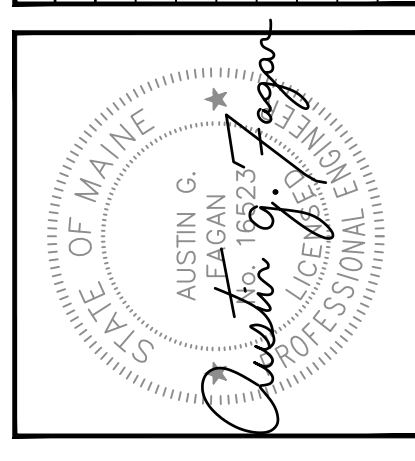
SHEET

**6**

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NO.	DATE	REVISION DESCRIPTION
1	10/31/24	Submitted To City of Sanford for Review
2	11/12/24	Rev'd. Plan Set - Subdivision Plan
3	11/25/24	Revised Per City Comments



**BH2M**  
 Berry, Huff, McDonald, Milfigan Inc.  
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 380B Main Street  
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 www.bh2m.com

FOR  
 Habitat For Humanity York County  
 P.O. Box 267  
 Kennebuck, ME 04043

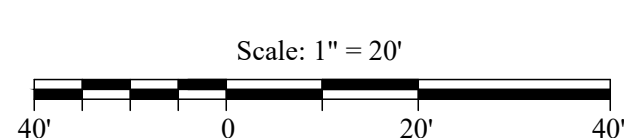
PRE DEVELOPMENT WATERSHED  
 HABITAT FOR HUMANITY  
 BEAVER HILL ROAD  
 SANFORD, MAINE

DESIGNED A. Fagan	DATE April 2024
DRAWN Dept.	SCALE 1" = 20'
CHECKED A. Fagan	JOB. NO. 22257

SHEET  
**A**  
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SYMBOL	DESCRIPTION
	POND
	DRAINAGE SUB AREA
	REACH
	DRAINAGE AREA BOUNDARY
	TIME OF CONCENTRATION ROUTE
	LIMIT OF WETLANDS
	EXISTING CONTOUR
	PROPOSED CONTOUR

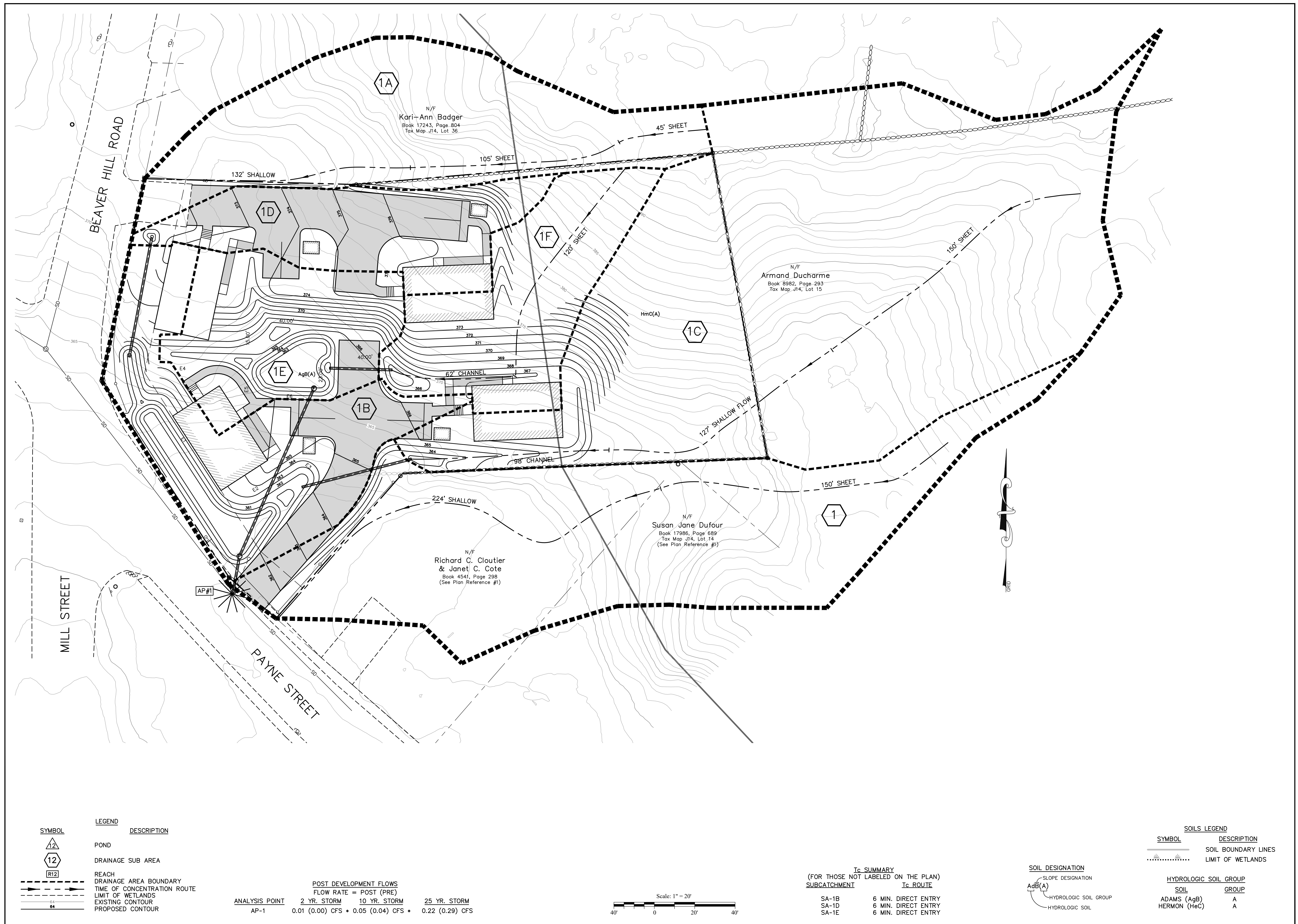
ANALYSIS POINT	2 YR. STORM	10 YR. STORM	25 YR. STORM
AP-1	0.00 CFS	0.04 CFS	0.29 CFS



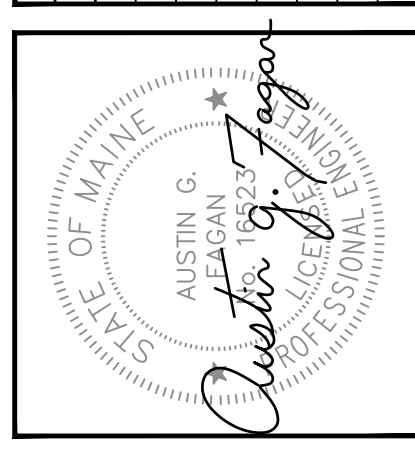
SOIL DESIGNATION	HYDROLOGIC SOIL GROUP
ADjB(A)	A
ADjB(A)	A
ADjB(A)	A

SOILS LEGEND	
SYMBOL	DESCRIPTION
	SOIL BOUNDARY LINES
	LIMIT OF WETLANDS
HYDROLOGIC SOIL GROUP	
SOIL	GROUP
ADAMS (AgB)	A
HERMON (HeC)	A





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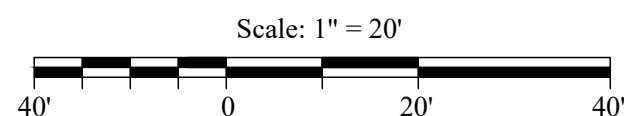
POST DEVELOPMENT  
 WATERSHED  
 HABITAT FOR HUMANITY  
 BEAVER HILL ROAD  
 SANFORD, MAINE

DESIGNED A. Fagan	DATE April 2024
DRAWN Dept.	SCALE 1" = 20'
CHECKED A. Fagan	JOB. NO. 22257

SHEET  
**B**  
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SYMBOL	DESCRIPTION
	POND
	DRAINAGE SUB AREA
	REACH
	DRAINAGE AREA BOUNDARY
	TIME OF CONCENTRATION ROUTE
	LIMIT OF WETLANDS
	EXISTING CONTOUR
	PROPOSED CONTOUR

ANALYSIS POINT	POST DEVELOPMENT FLOWS FLOW RATE = POST (PRE)		
	2 YR. STORM	10 YR. STORM	25 YR. STORM
AP-1	0.01 (0.00) CFS	0.05 (0.04) CFS	0.22 (0.29) CFS



Tc SUMMARY (FOR THOSE NOT LABELED ON THE PLAN)	
SUBCATCHMENT	Tc ROUTE
SA-1B	6 MIN. DIRECT ENTRY
SA-1D	6 MIN. DIRECT ENTRY
SA-1E	6 MIN. DIRECT ENTRY

SOILS LEGEND		
SYMBOL	DESCRIPTION	
	SOIL BOUNDARY LINES	
	LIMIT OF WETLANDS	
HYDROLOGIC SOIL GROUP		
SOIL	GROUP	
ADAMS (AgB)	A	
HERMON (HeC)	A	