

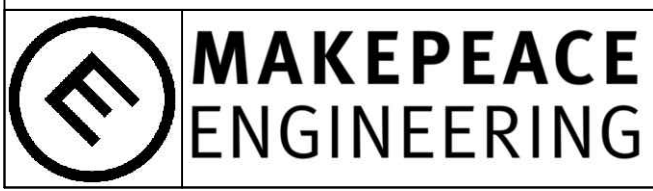
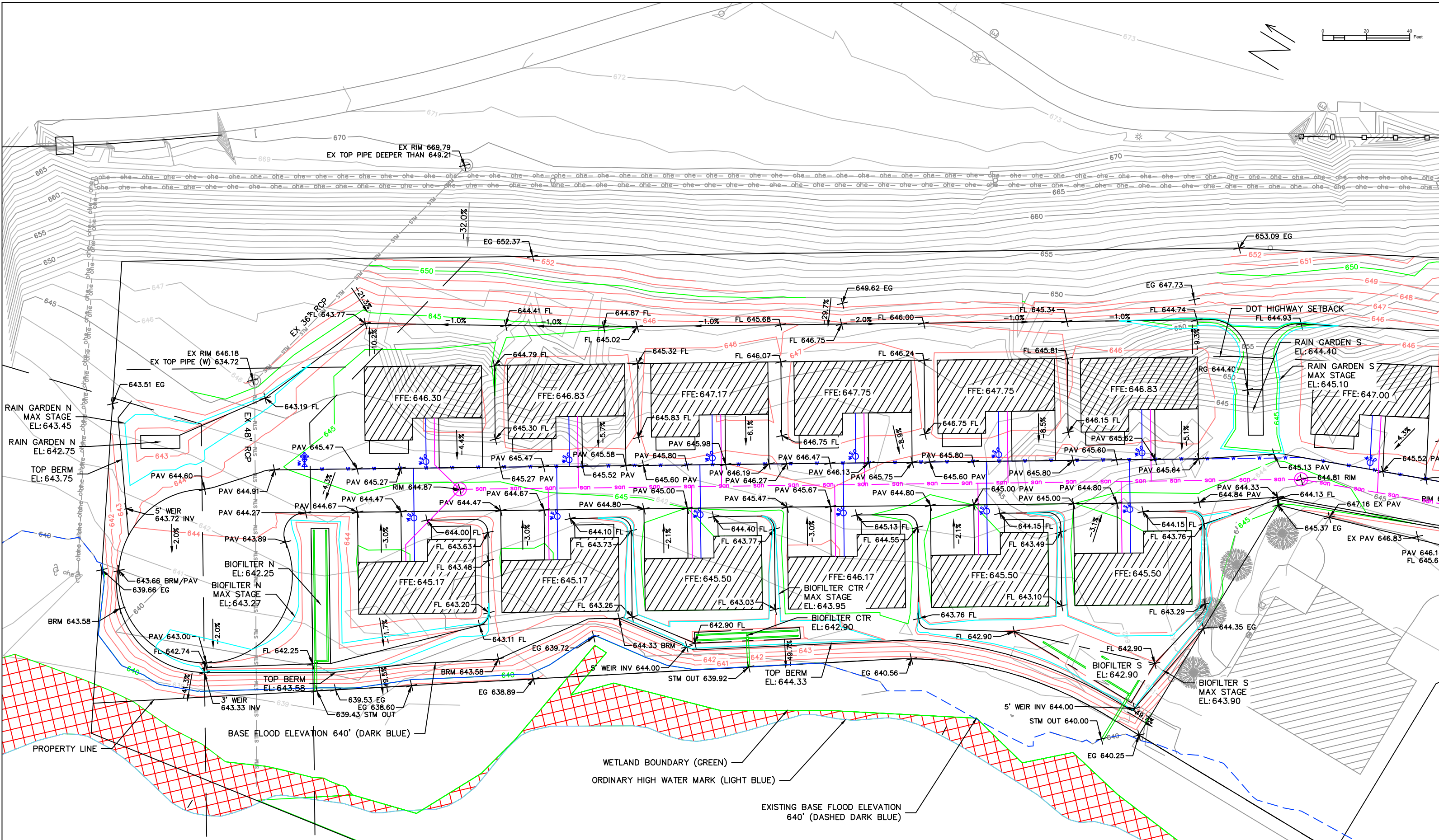
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CITY OF LA CROSSE
LA CROSSE COUNTY, WI

02/10/2025

GRADING PLAN OVERVIEW

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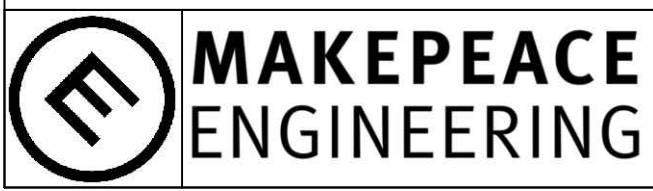
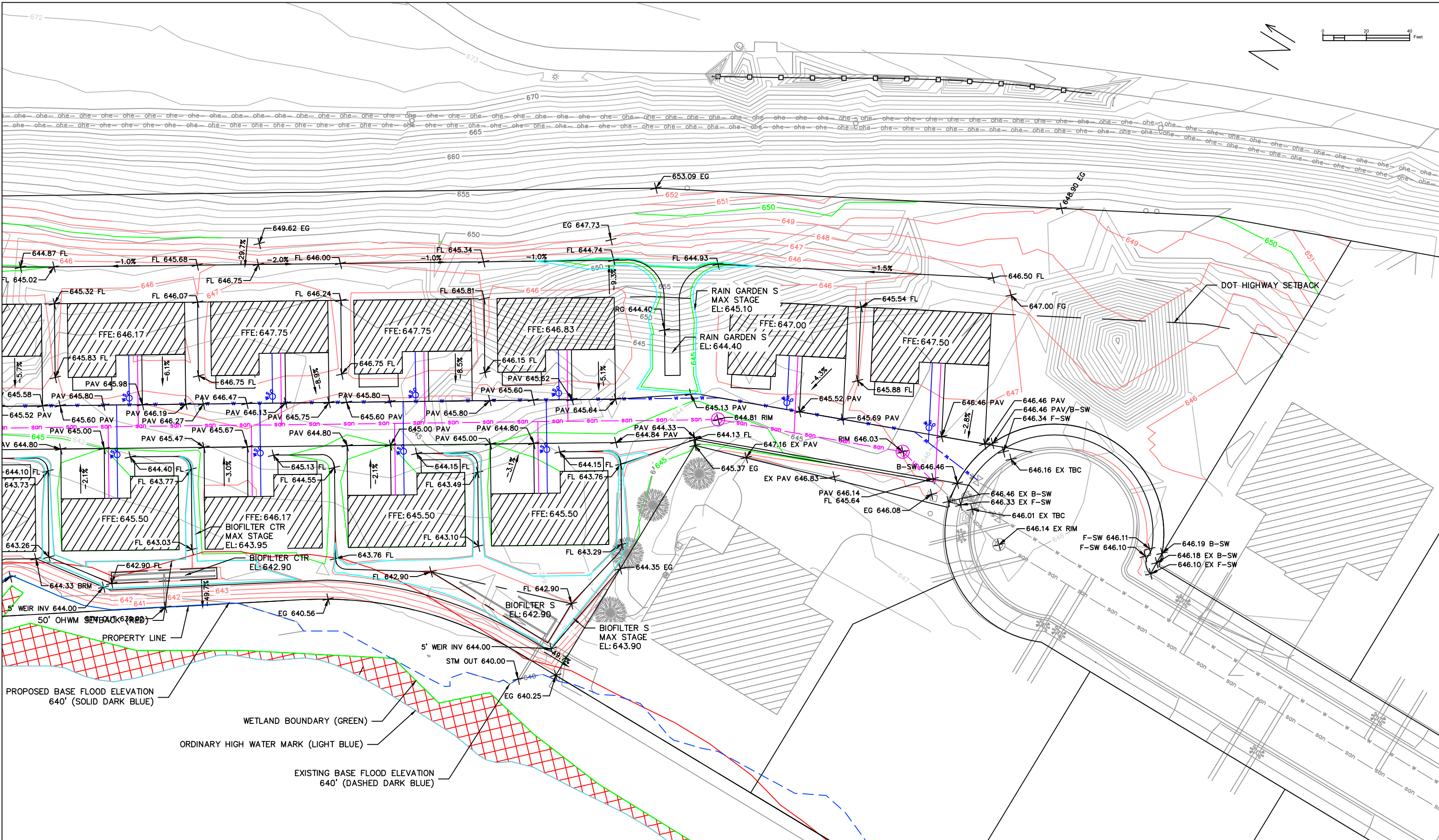
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GRADING PLAN NORTH

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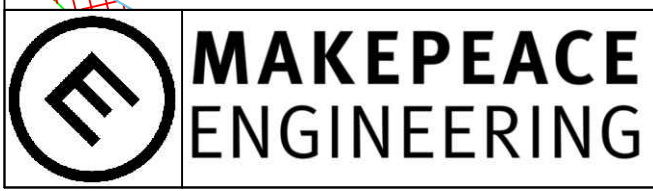
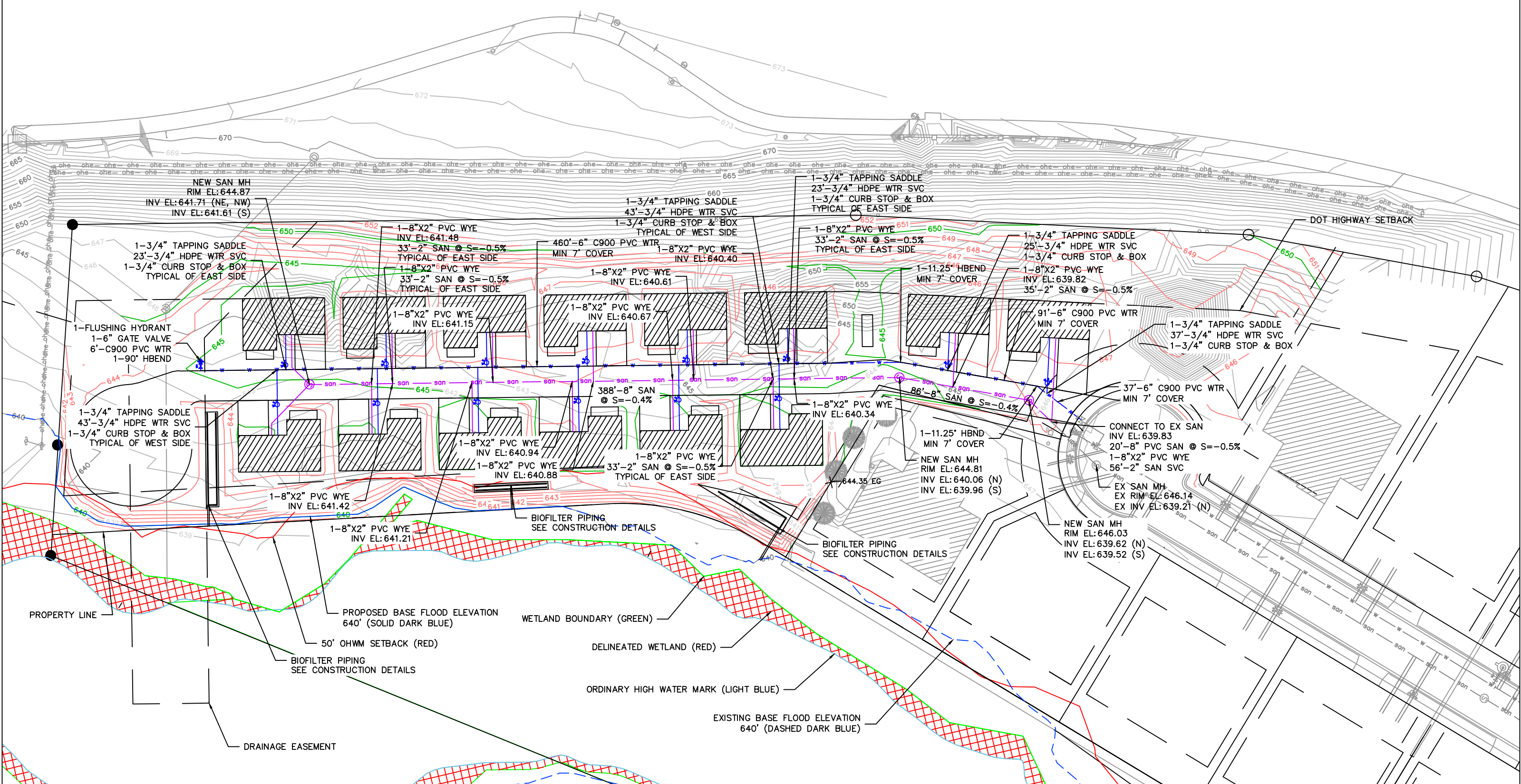
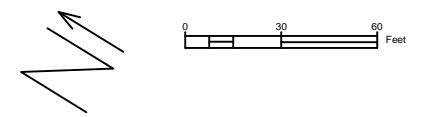
02/10/2025

GRADING PLAN SOUTH

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NOTES:
 1. ALL SANITARY SERVICE PIPING SHALL HAVE A MINIMUM SLOPE OF S=-0.5%
 2. ALL WATER SERVICE PIPING SHALL HAVE A MINIMUM OF 7' OF COVER



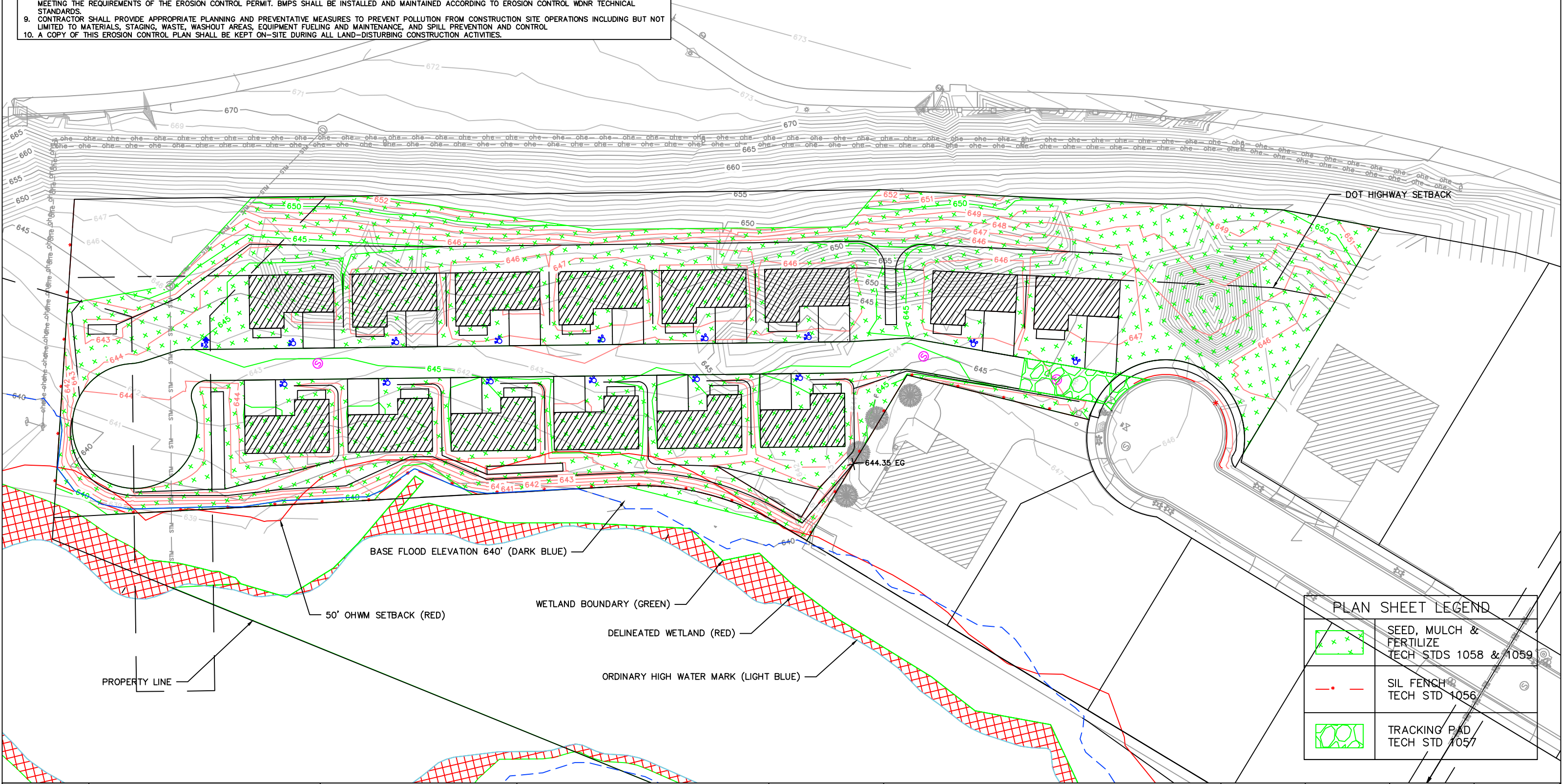
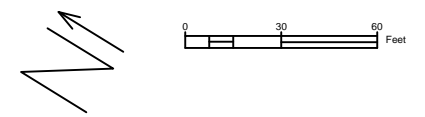
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 UTILITY PLAN

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- EROSION CONTROL NOTES**
1. THE EROSION CONTROL ON THIS PLAN HAS BEEN PREPARED AS A GUIDE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, MODIFYING & IMPLEMENTING AN ALTERNATE EROSION CONTROL PLAN BASED ON THEIR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
 2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES, AND SHALL BE MAINTAINED TO ENSURE PROPER FUNCTION THROUGHOUT, AND AFTER, CONSTRUCTION, UNTIL THE SITE HAS ACHIEVED 100% VEGETATION.
 3. SEE SPECIFICATIONS FOR EROSION CONTROL MEASURES & RECORDING. MAINTENANCE OF EROSION CONTROL IS REQUIRED UNTIL 100% VEGETATION IS ESTABLISHED. ADDITIONAL EROSION CONTROL MAY BE NEEDED (EROSION MAT, SILT FENCE, ETC.). VERIFY WITH PROJECT MANAGER.
 4. CONTRACTOR TO COORDINATE WEEKLY INSPECTION REPORTS ON ALL EROSION CONTROL MEASURES, AND AFTER A 0.5" RAIN EVENT IN ANY 24-HOUR PERIOD.
 5. ADJACENT STREETS AND ROADWAYS MUST BE SWEEPED TO KEEP THEM FREE OF SEDIMENT. CONTRACTOR MUST MONITOR CONDITIONS AND SWEEP AS NEEDED OR WITHIN 24 HOURS OF NOTICE BY THE CITY.
 6. ALL DISTURBED GROUND LEFT INACTIVE FOR 14 OR MORE DAYS MUST BE STABILIZED BY SEEDING, MULCH OR SODDING.
 7. ALL SOIL STOCKPILES MUST BE ENCLOSED WITH SILT FENCE, AND SEEDED IF LEFT INACTIVE FOR 7 OR MORE DAYS.
 8. CONTRACTOR SHALL ADJUST THE APPROPRIATE STRUCTURAL AND NON-STRUCTURAL BMP'S BASED ON CONSTRUCTION PROGRESS. ADJUSTMENT SHALL BE BASED ON MEETING THE REQUIREMENTS OF THE EROSION CONTROL PERMIT. BMP'S SHALL BE INSTALLED AND MAINTAINED ACCORDING TO EROSION CONTROL WDNR TECHNICAL STANDARDS.
 9. CONTRACTOR SHALL PROVIDE APPROPRIATE PLANNING AND PREVENTATIVE MEASURES TO PREVENT POLLUTION FROM CONSTRUCTION SITE OPERATIONS INCLUDING BUT NOT LIMITED TO MATERIALS, STAGING, WASTE, WASHOUT AREAS, EQUIPMENT FUELING AND MAINTENANCE, AND SPILL PREVENTION AND CONTROL.
 10. A COPY OF THIS EROSION CONTROL PLAN SHALL BE KEPT ON-SITE DURING ALL LAND-DISTURBING CONSTRUCTION ACTIVITIES.



BASE FLOOD ELEVATION 640' (DARK BLUE)

50' OHWM SETBACK (RED)

WETLAND BOUNDARY (GREEN)

DELINEATED WETLAND (RED)

ORDINARY HIGH WATER MARK (LIGHT BLUE)

PROPERTY LINE

PLAN SHEET LEGEND	
	SEED, MULCH & FERTILIZE TECH STDS 1058 & 1059
	SILT FENCE TECH STD 1056
	TRACKING PAD TECH STD 1057



MAKEPEACE ENGINEERING
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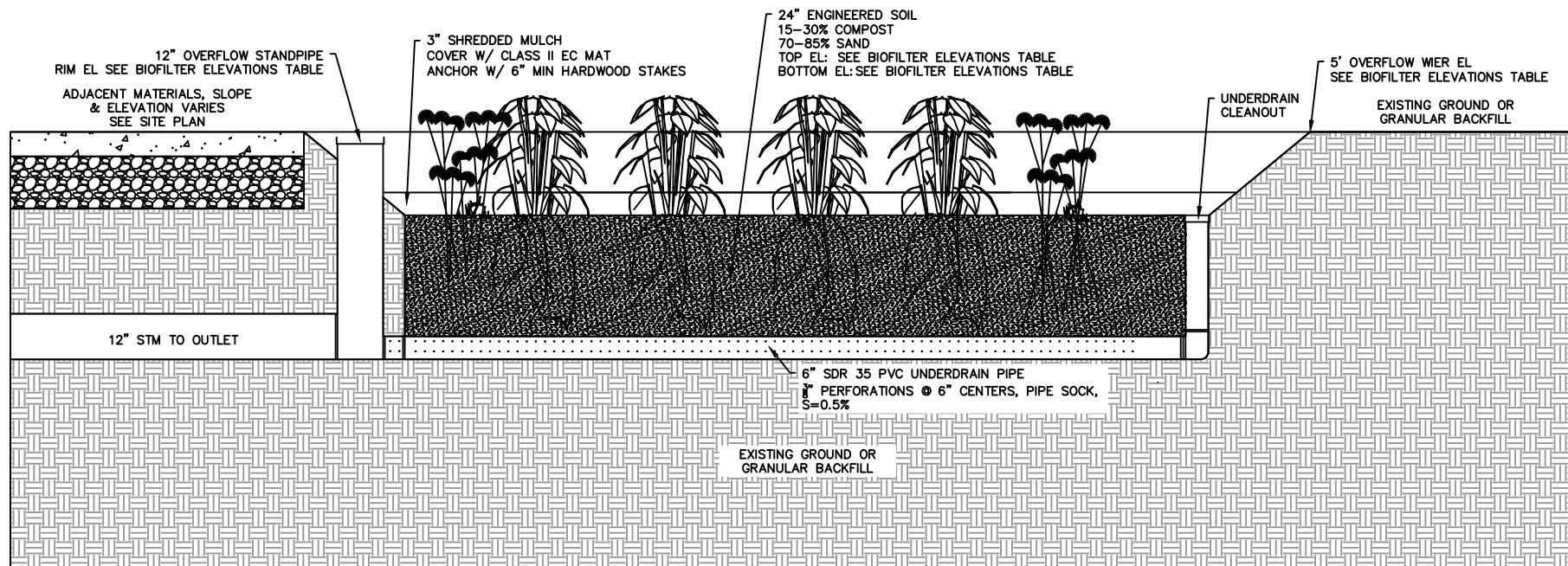
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EROSION CONTROL PLAN

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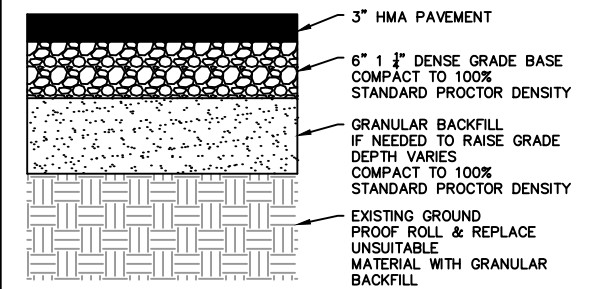
BIO-INFILTRATION DEVICE TYPICAL SECTION



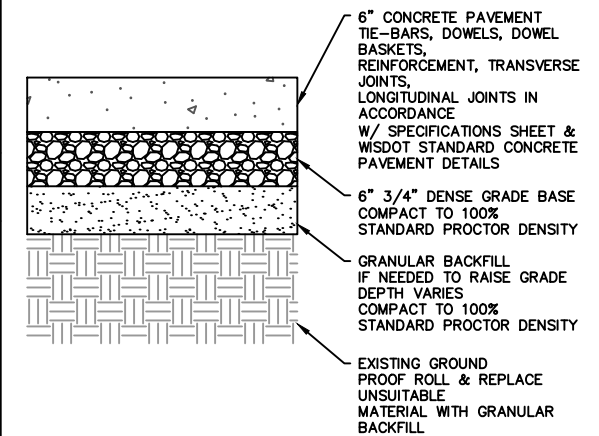
BIOFILTER ELEVATIONS				
BIOFILTER	BOTTOM OF ENG. SOIL EL.	TOP OF ENG. SOIL EL.	STANDPIPE EL.	WEIR INV EL.
NORTH	640.25	642.25	643.25	643.33
CENTER	640.90	642.90	643.90	644.00
SOUTH	640.90	642.90	643.83	644.00

- CONSTRUCTION NOTES:**
- CONSTRUCT BIOFILTER IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1004.
 - PROVIDED AS CONCEPT ONLY. ACTUAL INSTALLATION DETAILS FOR ADJACENT MATERIALS VARY AND ARE SHOWN ON THE SITE PLAN.
 - GRAVEL SHALL BE COARSE AGGREGATE #2 MEETING THE STANDARDS OF THE WISCONSIN STANDARDS AND SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION (WSSHSC), S. 501.2.5, 2003 ED.
 - COARSE SAND SHALL BE USDA COARSE SAND, FINE AGGREGATE CONCRETE SAND (ASTM 05C33), OR EQUIVALENT AS SPECIFIED IN WSSHSC S. 501.2.5.3.4, 2005 ED.
 - PLANT WITH NATIVE DECORATIVE GRASSES AND PLANTS.
 - PLUGS SHALL BE PLACED 1' ON CENTER.
 - PLANT SELECTION SHALL BE BASED ON ENGINEERED SOIL COMPOSITION AS WELL AS NATIVE SOIL CONDITIONS BENEATH THE ENGINEERED SOIL LAYER.
 - SELECTED PLANTS SHALL BE DEEP ROOTED.
 - SELECTED PLANTS SHALL BE APPROVED BY OWNER PRIOR TO PLANTING.

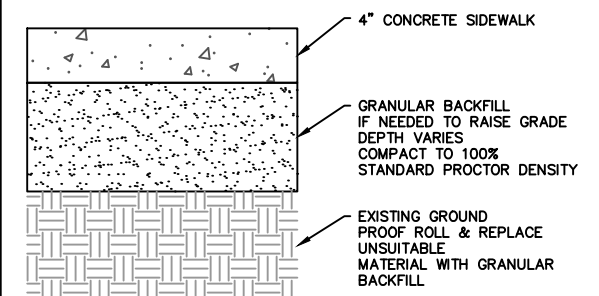
PAVEMENT TYPICAL SECTIONS



HMA PAVEMENT



CONCRETE PAVEMENT

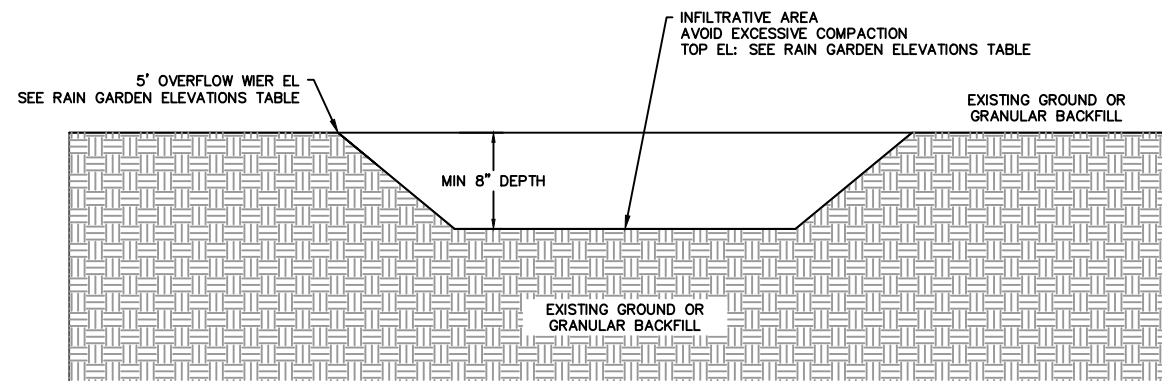


SIDEWALK

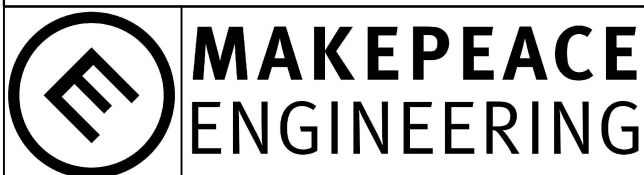
RAIN GARDEN

RAIN GARDEN ELEVATIONS

RAIN GARDEN	TOP OF INFIL. SOIL EL.	WEIR INV EL.
NORTH	642.75	643.72
SOUTH	644.40	645.13



- CONSTRUCTION NOTES:**
- CONSTRUCT RAIN GARDEN IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1009.
 - PROVIDED AS CONCEPT ONLY. ACTUAL INSTALLATION DETAILS FOR ADJACENT MATERIALS VARY AND ARE SHOWN ON THE SITE PLAN.
 - PLANT WITH NATIVE DECORATIVE GRASSES AND PLANTS OR TURF.
 - PROVIDE ADEQUATE PLUG SPACING AND/OR SEED DENSITY AS PER PROVIDER'S INSTRUCTION.
 - PLANT SELECTION SHALL BE BASED ON NATIVE SOIL CONDITIONS.



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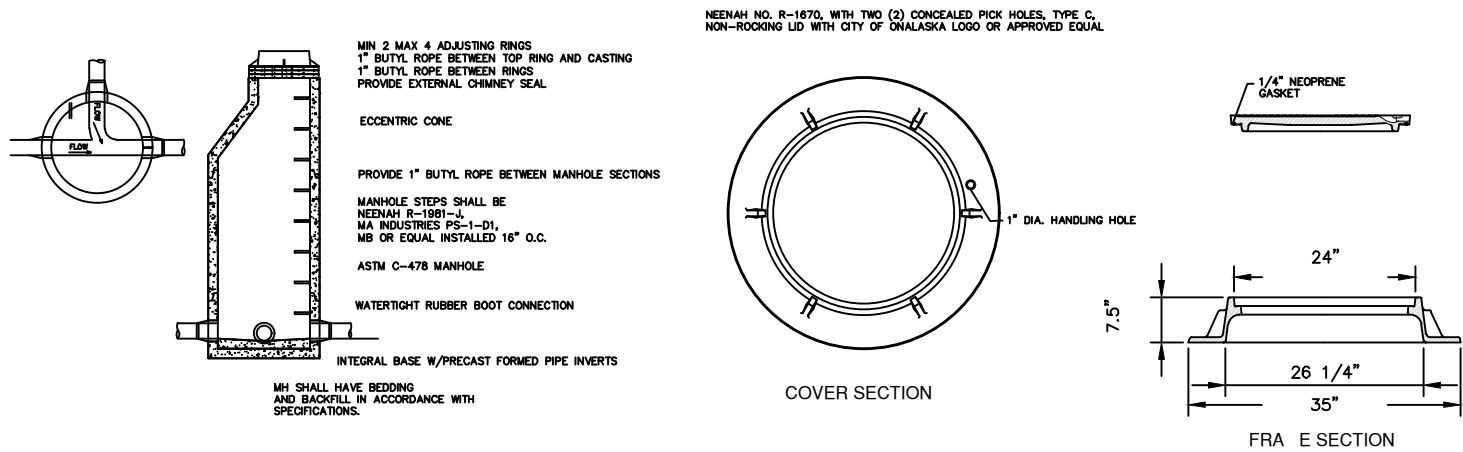
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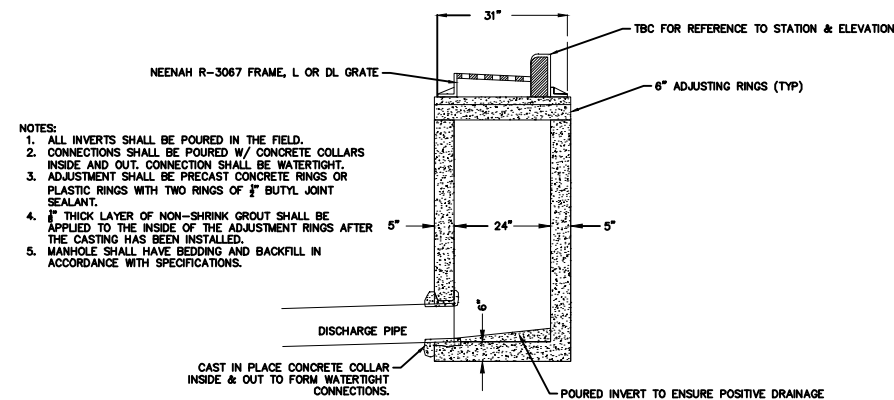
CONSTRUCTION
DETAILS

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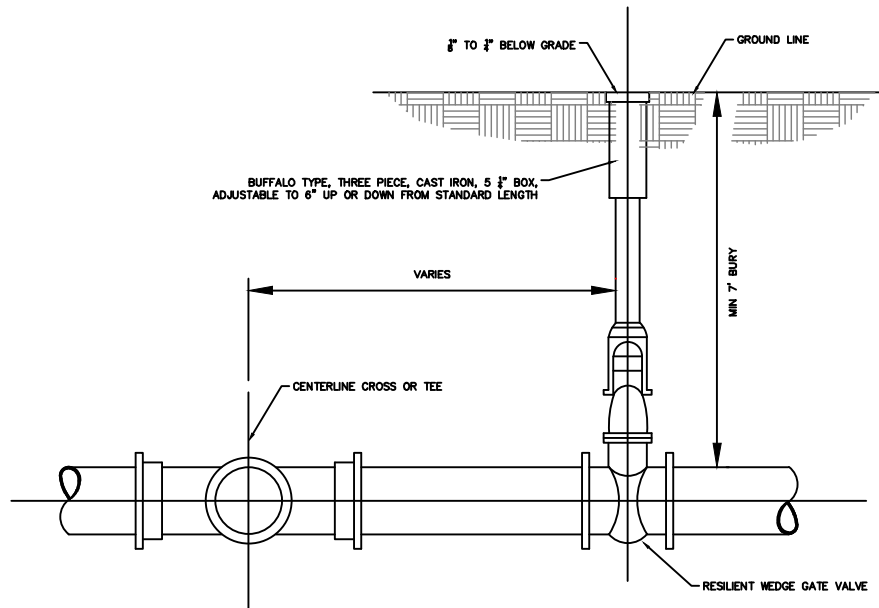
SANITARY SEWER MANHOLE



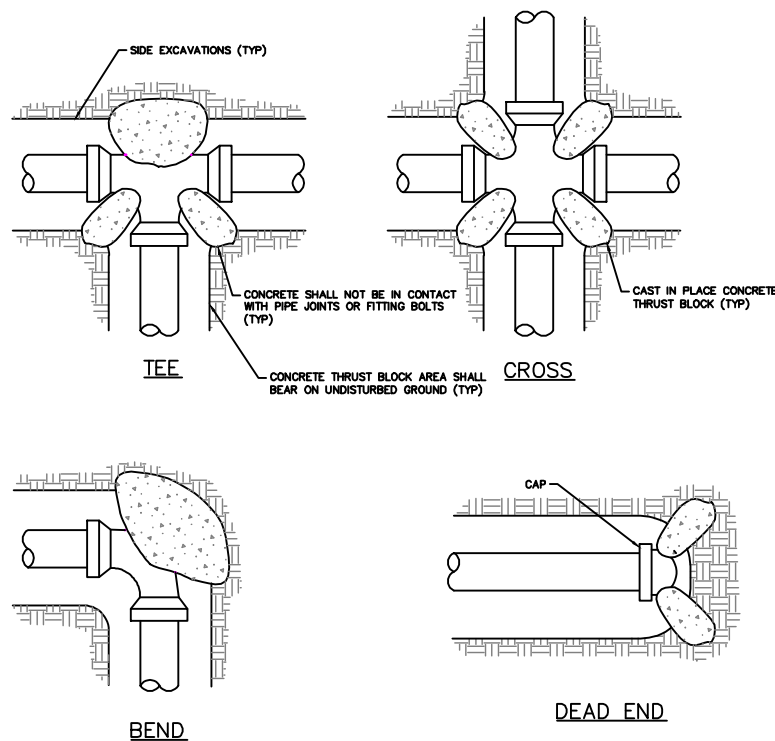
TYPICAL 24" X36" PRE-CAST CONCRETE CATCH BASIN



TYPICAL GATE VALVE



TYPICAL THRUST BLOCK DETAIL



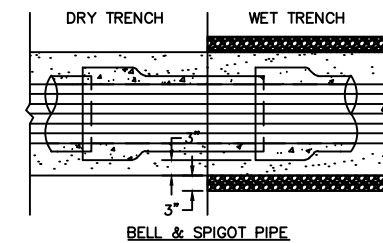
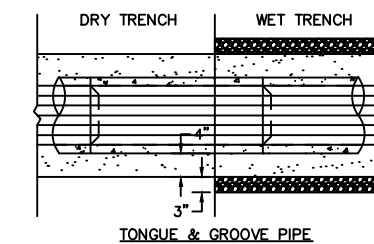
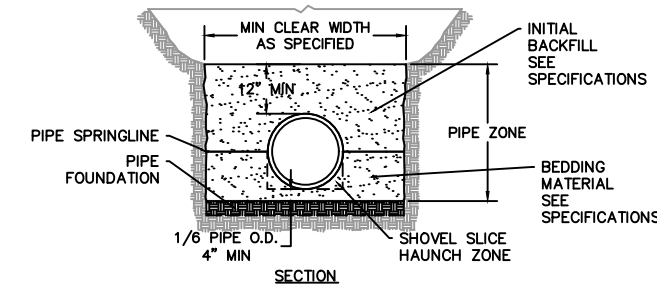
BEARING AREAS EACH DIRECTION OF THRUST IN SQUARE FEET

PIPE SIZE	TEES & DEADENDS	90° ELBOWS	45° ELBOW CROSSES IN DIRECTION OF FLOW	22-1/2° ELBOWS
6"	4.0	5.5	3.0	2.0
8"	7.0	9.5	5.0	3.0
10"	9.5	13.5	7.0	4.0
12"	13.5	19.0	10.0	5.0
14"	18.0	23.5	14.0	7.0
16"	23.0	33.0	18.0	9.0

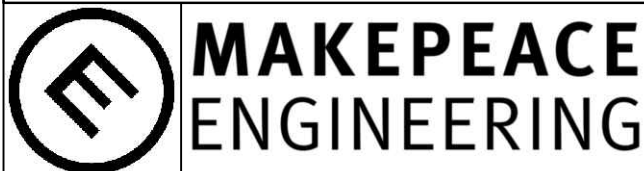
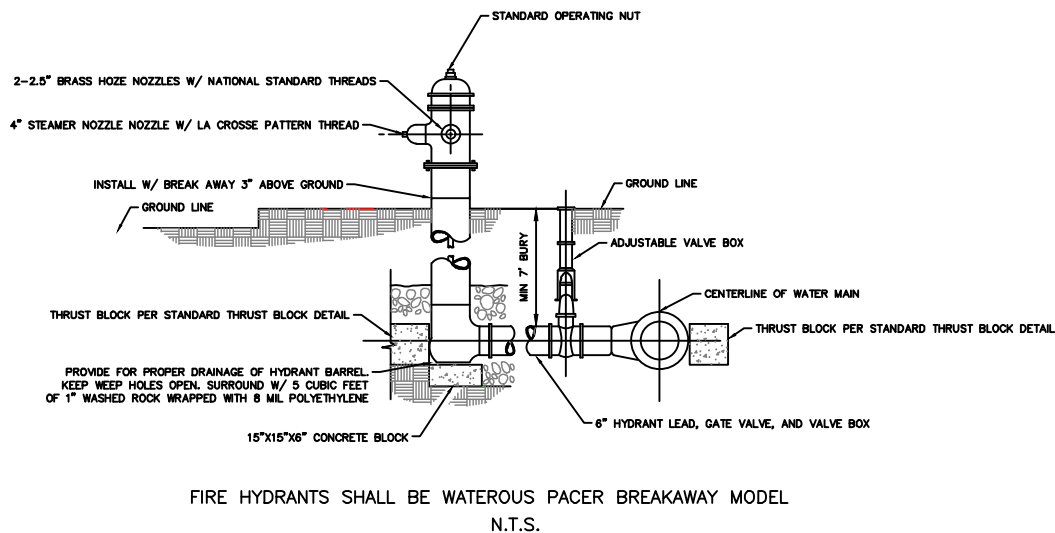
IF SPECIFICATIONS ALLOW, GENERAL CONTRACTOR MAY RESTRAIN JOINTS USING MEGA-LUG JOINT RESTRAINTS. ALL JOINTS FOR THE RESTRAINED LENGTH ACCORDING TO THE MEGA-LUG JOINT RESTRAINT CALCULATOR SHALL BE RESTRAINED.

CLASS "B" EMBEDMENT

- NOTES:
1. BEDDING DETAIL APPLIES TO BOTH WATERMAIN AND STORM SEWER.
 2. ALL TRENCHES SHALL COMPLY WITH OSHA STANDARDS.
- GENERAL NOTES:
1. BEDDING MATERIAL TO BE PLACED BEFORE SETTING PIPE. 4" MIN UNDER BARREL WITH 3" MIN UNDER BELL.
 2. INITIAL BACKFILL SHALL BE FREE OF DEBRIS ORGANIC MATERIAL & LARGE STONES, WITH A MAX PARTICLE SIZE OF 1".
 3. IN ROCK OR OTHER INCOMPRESSIBLE MATERIALS, THE TRENCH SHALL BE OVER-EXCAVATED A MIN OF 6" AND REFILLED WITH GRANULAR MATERIAL.



TYPICAL FIRE HYDRANT DETAIL



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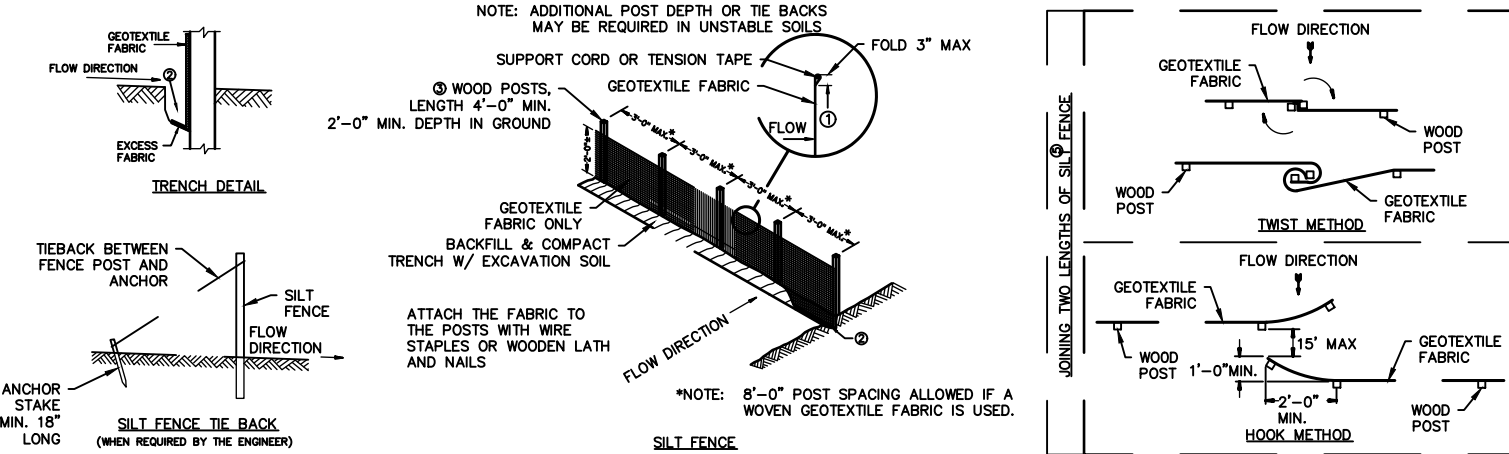
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SILT FENCE

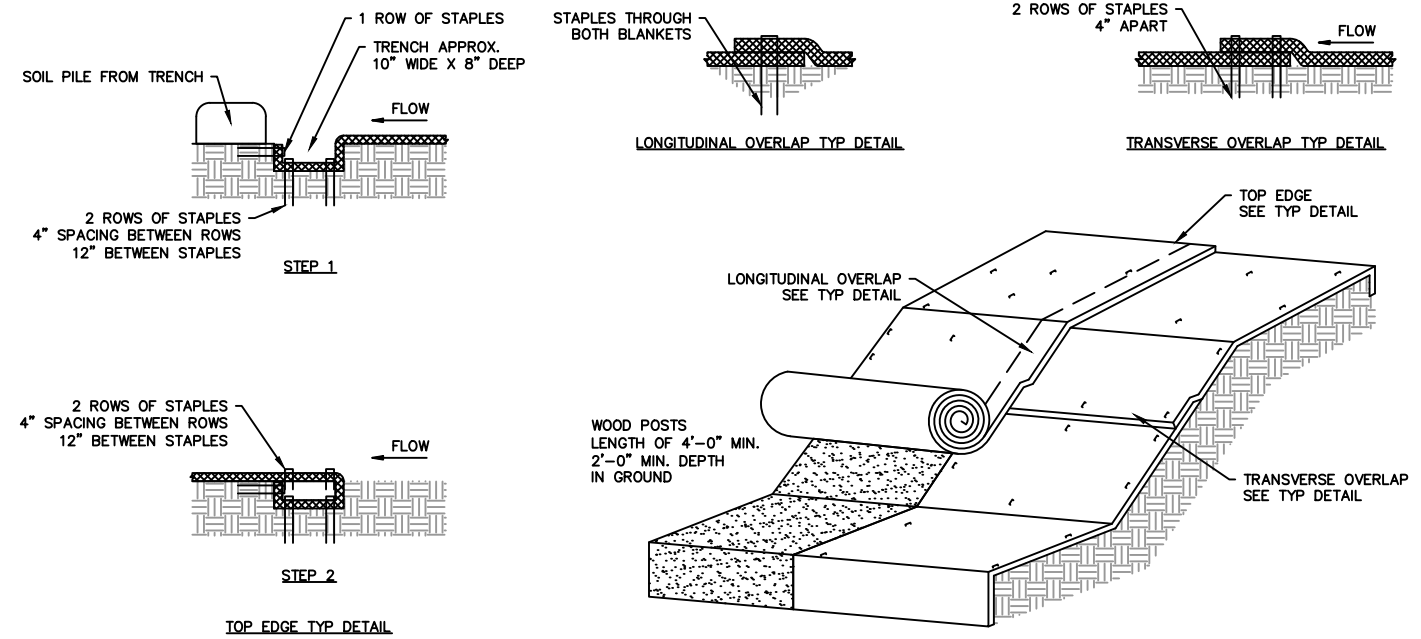
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/2" X 1 1/2" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS:
 A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES,
 B) HOOK THE END OF EACH SILT FENCE LENGTH.



NON-CHANNEL EROSION MAT



TRACKING PAD

GENERAL NOTES

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

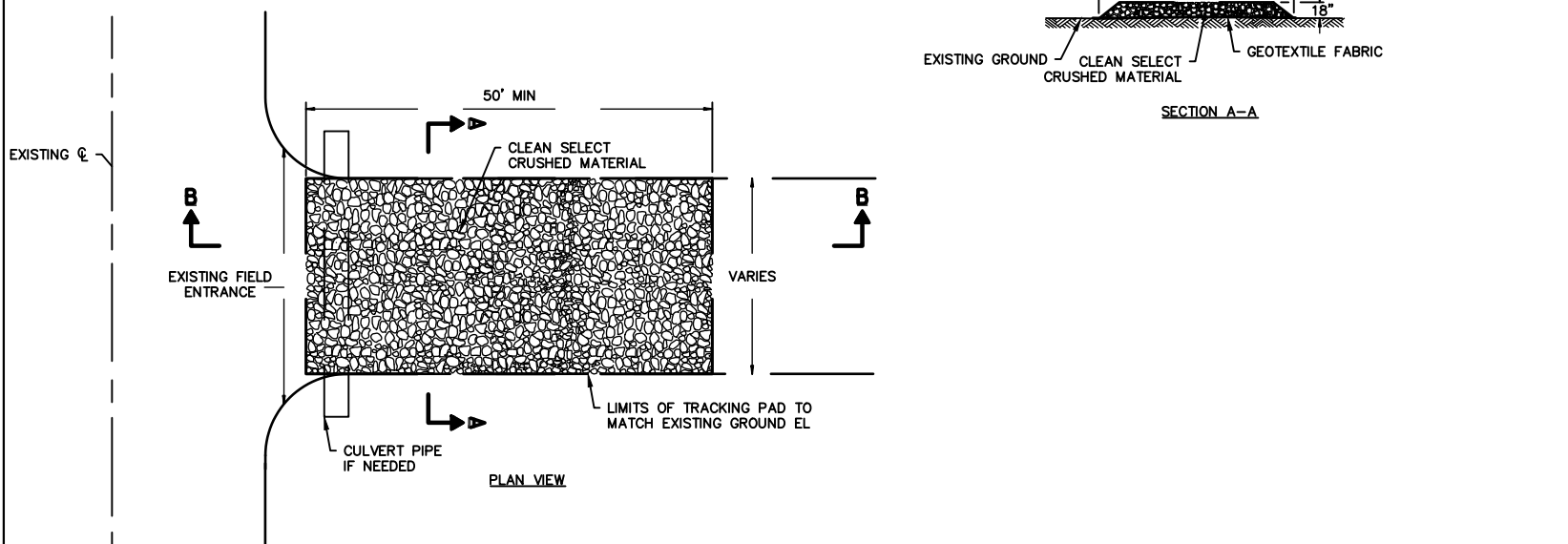
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

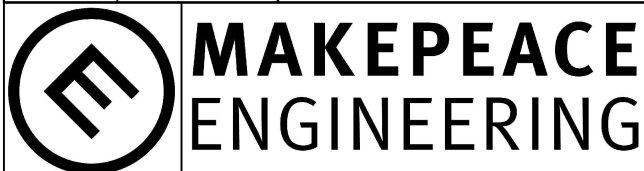
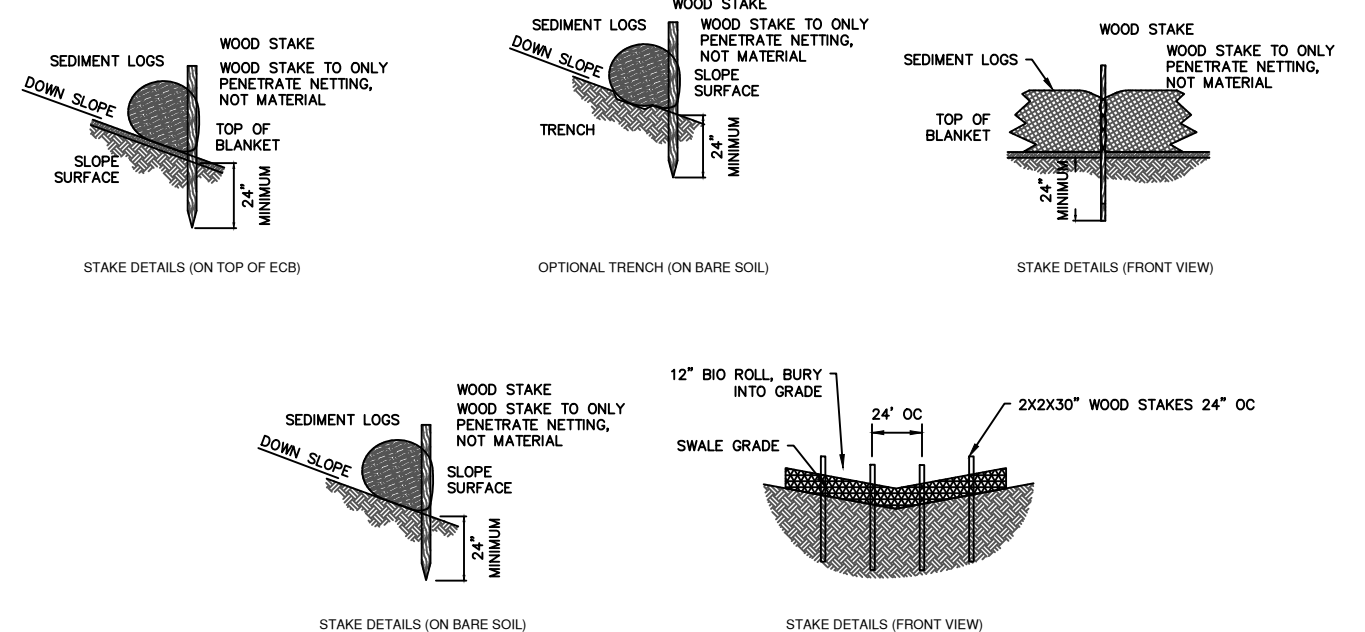
CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR-24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



DITCH CHECKS

DITCH CHECKS FOR DRAINAGE SWALES



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