

PLAN OF

HUDSON RIVER WALK IMPROVEMENTS

IN THE CITY/TOWN OF

HUDSON

MIDDLESEX COUNTY

HUDSON
RIVER WALK IMPROVEMENTS

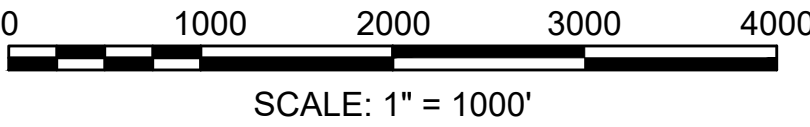
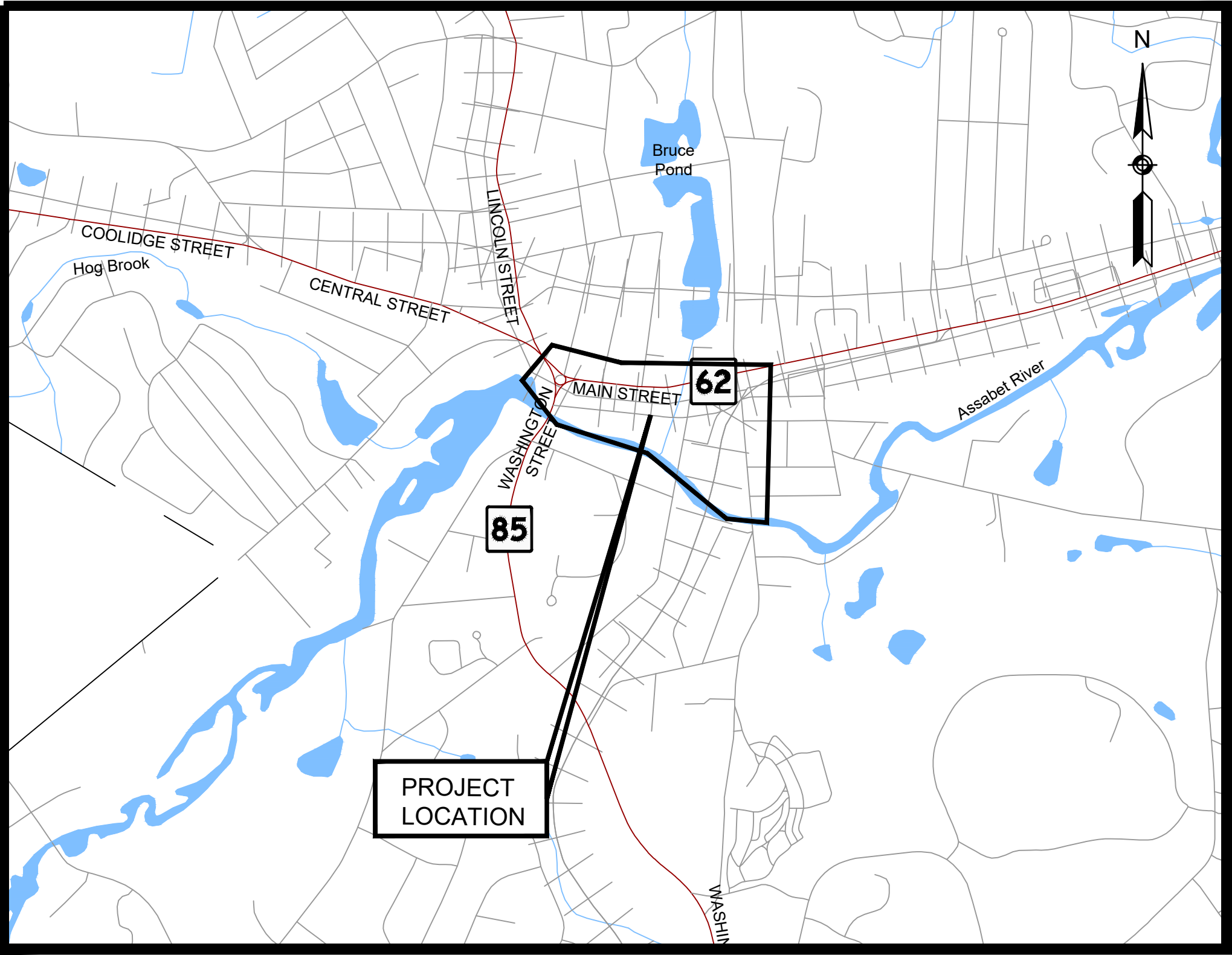
STATE		SHEET NO.	TOTAL SHEETS
MA		T1.0	24
BSC GROUP FILE NO.		61149.00	

TITLE SHEET & INDEX
05/20/2020 PERMIT

THIS PROJECT IS OWNED AND DIRECTED BY THE TOWN OF HUDSON. WHO ARE SOLELY RESPONSIBLE FOR THE TERMS OF ITS EXECUTION. FOR CONSISTENCY WITH RECENT AND CONCURRENT INFRASTRUCTURE WORK IN THE VICINITY OF THE PROJECT REFERENCE THE FOLLOWING:

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015, THE LATEST INTERIM SUPPLEMENTAL SPECIFICATIONS, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WTH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

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C3.0-3.5	DETAILS



5/20/2020	PERMIT SUBMISSION	
05/01/2020	90% SUBMISSION	
4/28/2020	75% SUBMISSION	
3/24/2020	50% SUBMISSION	
5/20/2020	DESCRIPTION	REV #

CONSULTANT:



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RECOMMENDED FOR APPROVAL

REVIEWER

DATE

APPROVED

ENGINEER

DATE

PROJECT ADMINISTRATOR

DATE

EXISTING CONDITIONS NOTES:

- EXISTING CONDITIONS SHOWN ARE FROM PORTIONS OF MULTIPLE EXISTING CONDITIONS FIELD SURVEYS, GIS DATA AERIAL PHOTO TRACE, FIELD DELINEATED WETLAND FLAGS AND BANKS SURVEYS SAMPLED INCLUDE THOSE BY BSC GROUP DURING OCTOBER 2014 AND OCTOBER 2017, COMBINED WITH SURVEYS THAT WERE PERFORMED BY OTHERS IN 2002, AND AS BUILT SURVEY FROM 1/9-13/2006 AND FROM SEPT. 9-NOV. 18/2016. NO GUARANTEE, IMPLIED OR INTENDED, IS GIVEN THAT EXISTING CONDITIONS SHOWN ARE ACCURATE OR COMPLETE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING THE WORK AND SHALL NOTIFY OWNER AND ENGINEER IN WRITING IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES THAT AFFECT THE WORK.
- ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
- ALL UNDERGROUND UTILITIES SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND ARE APPROXIMATE ONLY. SEE CHAPTER 370 ACTS OF 1963, MASSACHUSETTS GENERAL LAWS, THE UNDERGROUND UTILITIES SHOWN WERE NOT INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACURATELY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND COORDINATING ANY ON-SITE ACTIVITY WITH DIG-SAFE AND THE APPROPRIATE UTILITY COMPANY AND MAINTAINING EXISTING UTILITY SYSTEM SERVICE. DIG-SAFE SHALL BE NOTIFIED PER THE COMMONWEALTH OF MASSACHUSETTS STATUTE CHAPTER 82, SECTION 40, AT 1-888-344-7233. NO GUARANTEE IS IMPLIED OR INTENDED AS TO THE ACCURACY, LOCATION OR THAT ALL UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY SIZE, LOCATION, AND INVERTS OF UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION NOTES:

GENERAL NOTES

- ALL WORK METHODS AND MATERIALS SHALL CONFORM TO THE TOWN OF HUDSON DEPARTMENTS OF PUBLIC WORKS AND PARKS AND RECREATION, AND COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION, COORDINATE WITH THE APPROPRIATE STATE AND CITY AGENTS REGARDING CONSTRUCTION INSPECTION REQUIREMENTS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATIONS AND/OR ELEVATIONS OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIG SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENT SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL GIVE ALL NOTICES, COMPLY WITH ALL LAWS AND REGULATIONS, OBTAIN ALL PERMITS NECESSARY, AND PAY ALL FEES ASSOCIATED WITH THE INSTALLATION OF THE WORK.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, SUPERVISION, TOOLS, EQUIPMENT, FUEL, POWER, SANITARY FACILITIES AND INCIDENTALS NECESSARY FOR THE FURNISHING, PERFORMANCE, TESTING, START-UP AND COMPLETION OF THIS WORK.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF PERSONNEL AND PROTECTION OF PROPERTY AT THE SITE, AND ADJACENT THERETO, INCLUDING, BUT NOT LIMITED TO, TREES, SHRUBS, LAWNS, PAVEMENTS, ROADWAYS, STRUCTURES AND UNDERGROUND UTILITIES NOT DESIGNED FOR REMOVAL, RELOCATION, OR REPLACEMENT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION REQUIRED FOR THE INSTALLATION OF THIS WORK.
- THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL AND OTHER DEBRIS RESULTING FROM THIS WORK.
- THE CONTRACTOR SHALL INSTITUTE ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC SAFETY. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BARRICADES, SIGNS, LIGHTING, FENCES, POLICE DETAILS, AND ANY OTHER MEANS AS DIRECTED. NO TRENCHES ARE TO REMAIN OPEN OVERNIGHT WITHOUT APPROPRIATE BARRICADES.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER IN WRITING.
- ALL GRADING IS TO BE SMOOTH AND CONTINUOUS. WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENTS, BLEND THE TWO PAVEMENTS AND ELIMINATE ROUGH SPOTS AND ABRUPT GRADE CHANGES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
- THE CONTRACTOR SHALL SECURE ALL EXCAVATIONS DURING NON-WORK HOURS. NO OPEN EXCAVATIONS SHALL REMAIN UNGUARDED AT ANYTIME. THE CONTRACTOR IS SPECIFICALLY ADVISED THAT THIS AREA IS PART OF AN ACTIVE TOWN OF HUDSON PARK AND SHOULD ASSUME THAT SIGNIFICANT PEDESTRIAN ACTIVITY WILL OCCUR IN THE SURROUNDING AREAS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE PUBLIC FROM ALL CONSTRUCTION HAZARDS.

DEWATERING NOTES

- DEWATERING IS NOT ANTICIPATED FOR THIS PROJECT IF EXCAVATIONS REVEAL SIGNIFICANT GROUNDWATER. CONTACT THE ENGINEER TO COORDINATE POTENTIAL ALTERNATIVES.
- IF ADJUSTMENTS CAN NOT BE MADE TO AVOID DEWATERING THE CONTRACTOR SHALL PROVIDE AND MAINTAIN DITCHES OF ADEQUATE SIZE TO COLLECT AND PREVENT SUBSURFACE WATER SEEPAGE FROM ENTERING THE EXCAVATIONS. DIVERT THE WATER TO SETTLING BASINS OR OTHER APPROVED EQUIPMENT REQUIRED TO REDUCE THE AMOUNT OF FINE PARTICLES BEFORE DISCHARGE. IF A DRAINAGE SYSTEM OR WATERCOURSE BECOMES BLOCKED DUE TO DEWATERING OPERATION, THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER, SHALL CLEAN IT.

CONSTRUCTION NOTES CONT.:

EROSION CONTROL NOTES

- THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES WHERE NEEDED. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE OR DAMAGED.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES ON SITE UPON THE COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL (TEC) MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ALL DISTURBED AREAS BELOW TEC MEASURES SHALL BE RESTORED TO MATCH THE INTENT OF THE PLANS (PAVEMENT, LOAM & SEED, ETC.).
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS.
- CONTRACTOR SHALL PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF 14 DAYS OR MORE.
- IF WORK ON THIS PROJECT IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION DURING THE SUSPENSION OF WORK.
- APPLY DUST SUPPRESSERS TO KEEP DUST WITHIN TOLERABLE LIMITS AT THE CONSTRUCTION SITE AND AS DIRECTED BY OWNER AND ENGINEER.
- SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS, NEW AND EXISTING, IN THE PROJECT AREA WITH PERIODIC CLEANING AND/OR REPLACING OF THE FILTER FABRIC, WHEN NECESSARY, THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN AT LEAST 20 LINEAR FEET OF STRAW WATTLE AND TWO (2) SILT SACK ON SITE AT ALL TIMES FOR USE AS NEEDED.
- HAYBALES SHALL NOT BE USED FOR EROSION AND SEDIMENTATION CONTROLS ON THIS PROJECT.
- EROSION IS NOT ANTICIPATED DUE TO EXISTING GRADES, BUT EROSION CONTROL MEASURES SHALL BE AVAILABLE ON SITE AND EMPLOYED WHERE REQUIRED, OR DIRECTED BY THE OWNER'S REPRESENTATIVE. SOIL STOCKPILES SHALL BE COVERED AND/OR WRAPPED IN EROSION CONTROL BARRIER.

ROADWAYS AND PAVEMENT NOTES

- ALL UTILITY GRATES, COVERS OR OTHER SURFACE ELEMENTS INTENDED TO BE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL EDGES.
- ALL PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER AS PART OF THIS WORK.
- DIMENSIONS SHOWN ARE TO FACE OF CURB/GUTTER LINE OR FACE OF BUILDING UNLESS OTHERWISE NOTED.

UTILITY NOTES:

- PRIOR TO RECEIVING AUTHORIZATION TO CONSTRUCT, ALL MATERIALS SHALL MEET THE STANDARDS SPECIFIED AND RECEIVE SHOP DRAWING APPROVAL FROM THE ENGINEER, BASED ON MANUFACTURER'S DRAWINGS AND OTHER DATA.
- ALL PROPOSED STRUCTURES, PIPES, OR UTILITIES CONNECTING TO EXISTING STRUCTURES, PIPES OR UTILITIES SHALL BE VERIFIED FOR LOCATION AND ELEVATION BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES NOTED SHALL BE REPORTED TO THE ENGINEER IN WRITING BEFORE WORK COMMENCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED. THE CONTRACTOR SHALL PROVIDE THIS INFORMATION IN A CLEAR AND LEGIBLE FORMAT.
- UNLESS OTHERWISE NOTED, ALL EXISTING UTILITIES THAT SERVE EXISTING USES/BUILDINGS, INCLUDING BUT NOT LIMITED TO, DRAIN, TELEPHONE, CABLE AND ELECTRIC SHALL BE PROTECTED. THESE UTILITIES AND OTHERS THAT SERVE ADJACENT PROPERTIES SHALL REMAIN IN SERVICE THROUGHOUT CONSTRUCTION.
- AT THE COMPLETION OF OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL NEW AND EXISTING DRAINAGE STRUCTURES OF SAND, SOIL OR OTHER DEBRIS.
- ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND OF GOOD QUALITY.

FURNISHING NOTES :

CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING

- LITTER RECEPTACLES:
 - PHASE-1-4: (1) LITTER RECEPTACLE TO BE FIELD LOCATED AND SURFACE MOUNTED ON CONCRETE PAVEMENT AS DIRECTED BY THE OWNERS REPRESENTATIVE.
 - EXISTING LITTER RECEPTACLES TO BE PROTECTED.
 - BARELS TO BE REMOVED AND STACKED FOR RE USE AS DIRECTED BY THE OWNERS REPRESENTATIVE.
- BIKE RACKS:
 - PHASE 3 RELOCATE OR REPLACE (3) U BIKE RACKS. WHERE INDICATED ON PLANS.
- BENCHES:
 - PHASE 2 - (2) BENCHES LOCATED PER PLAN AND SURFACE. MOUNTED ON CONCRETE PAVEMENT AS DIRECTED BY OWNER'S REPRESENTATIVE.
 - PHASE 3 - (2) EXISTING BENCHES RELOCATED AS DIRECTED BY OWNERS REPRESENTATIVE.
- TABLES:
 - PHASE 3 - (1) ADA TABLE WHERE INDICATED ON PLAN.
 - PHASE 4 - (2) EXISTING BENCHES RELOCATED AS DIRECTED BY OWNERS REPRESENTATIVE.

ALL OTHER FURNISHINGS DESCRIBED IN PLANS AND DETAILS.

EROSION CONTROL AND CONSTRUCTION SEQUENCING NOTES

SUGGESTED BMP'S FOR CONSTRUCTION

GRUBBING, STRIPPING AND GRADING

- EROSION CONTROL DEVICES SHALL BE IN PLACE AT A MINIMUM AS SHOWN ON THE DESIGN PLANS BEFORE GRUBBING, CLEARING, STRIPPING, OR GRADING COMMENCES.
- STRIPPING SHALL BE DONE IN A MANNER WHICH WILL NOT CONCENTRATE RUNOFF. IF PRECIPITATION IS EXPECTED, EARTHEN BERMS SHALL BE CONSTRUCTED AROUND THE AREA BEING STRIPPED, WITH SILT SOCK DIKES LOCATED IN AN ARC AT THE LOW POINT OF THE BERM.
- IF INTENSE PRECIPITATION IS ANTICIPATED, DIKES AND/OR SOCKS SHALL BE USED AS REQUIRED TO PREVENT EROSION AND SEDIMENT TRANSPORT. THE MATERIALS REQUIRED SHALL BE STORED ON SITE AT ALL TIMES.
- IF WATER IS REQUIRED FOR SOIL COMPACTION, IT SHALL BE ADDED IN A UNIFORM MANNER THAT DOES NOT ALLOW EXCESS WATER TO FLOW OFF THE AREA BEING COMPACTED.
- SOIL SHALL BE SUPPRESSED AT A MINIMUM BY SPRINKLING EXPOSED SOIL WITH AN APPROPRIATE AMOUNT OF WATER.

MAINTENANCE OF DISTURBED SURFACES

- RUNOFF SHALL BE DIVERTED FROM DISTURBED SIDE SLOPES IN BOTH CUT AND FILL.
- MULCHING MAY BE USED FOR TEMPORARY STABILIZATION.
- SILT SOCKS SHALL BE SET WHERE REQUIRED TO TRAP PRODUCTS OF EROSION AND SHALL BE MAINTAINED ON A CONTINUING BASIS DURING THE CONSTRUCTION PROCESS.

LOAMING AND SEEDING

- LOAM SHALL NOT BE PLACED UNLESS IT IS TO BE SEEDED DIRECTLY THEREAFTER.
- ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 6" OF LOAM PLACED BEFORE BEING SEEDED AND MULCHED.
- CONSIDERATION SHALL BE GIVEN TO HYDRO-MULCHING, ESPECIALLY ON SLOPES IN EXCESS OF 3 TO 1.
- LOAMED AND SEEDED SLOPES SHALL BE PROTECTED FROM WASHOUT BY MULCHING OR OTHER ACCEPTABLE SLOPE PROTECTION UNTIL VEGETATION BEGINS TO GROW.

COMPLETION OF PAVED AREAS

- DURING THE PLACEMENT OF SUB-BASE AND PAVEMENT, THE ENTRANCES TO THE STORM WATER DRAINAGE SYSTEMS SHALL BE SEALED IF RAIN IS EXPECTED. WHEN THESE ENTRANCES ARE CLOSED, CONSIDERATION MUST BE GIVEN TO THE DIRECTION OF RUN-OFF AND MEASURES SHALL BE UNDERTAKEN TO MINIMIZE EROSION AND TO PREPARE FOR THE COLLECTION OF SEDIMENT.
- IN SOME SITUATIONS IT MAY BE NECESSARY TO KEEP CATCH BASINS OPEN.
- APPROPRIATE ARRANGEMENTS SHALL BE MADE DOWNSTREAM TO REMOVE ALL SEDIMENT DEPOSITION.

STABILIZATION OF SURFACES

- STABILIZATION OF SURFACES INCLUDES THE PLACEMENT OF PAVEMENT, RIP-RAP, WOOD BARK MULCH AND THE ESTABLISHMENT OF VEGETATED SURFACES.
- UPON THE COMPLETION OF CONSTRUCTION, ALL SURFACES SHALL BE STABILIZED.
- VEGETATED COVER SHALL BE ESTABLISHED DURING THE PROPER GROWING SEASON AND SHALL BE ENHANCED BY SOIL ADJUSTMENT FOR PROPER PH, NUTRIENTS AND MOISTURE CONTENT.
- SURFACES THAT ARE DISTURBED BY EROSION PROCESSES OR VANDALISM SHALL BE STABILIZED AS SOON AS POSSIBLE.
- AREAS WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED SHALL BE STABILIZED WITHIN 14 DAYS FROM THE DATE OF LAST CONSTRUCTION ACTIVITY, EXCEPT WHEN CONSTRUCTION ACTIVITY WILL RESUME WITHIN 21 DAYS (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS).
- HYDRO-MULCHING OF GRASS SURFACES IS RECOMMENDED, ESPECIALLY IF SEEDING OF THE SURFACES IS REQUIRED OUTSIDE THE NORMAL GROWING SEASON.
- STRAW MULCH, GUARANTEED FREE OF WEED SEED, IS ACCEPTABLE. HAY MULCH SHALL NOT BE USED ON SITE.

PLANTING NOTES

- VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE OWNER OR HIS REPRESENTATIVE.
- NO PLANT SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- THE CONTRACTOR SHALL CLEARLY MARK LIMITS OF CLEARING AND LIMITS OF SELECTIVE PRUNING AND THINNING, FOR REVIEW BY THE A/E PRIOR TO ANY CLEARING OPERATIONS.
- ALL TREES NOTED FOR SELECTIVE PRUNING AND THINNING SHALL BE EXECUTED BY A LICENSED ARBORIST.
- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING VEGETATION THAT IS TAGGED BY THE A/E, "TO BE SAVED".
- ALL TREES TO BE SAVED SHALL BE PROTECTED AS DIRECTED BY THE A/E WITH APPROPRIATE PROTECTIVE MEASURES.
- THE A/E RESERVES THE RIGHT TO ADJUST FINAL GRADES IN THE FIELD TO SAVE EXISTING VEGETATION.
- LOAM AND SEED ALL DISTURBED AREAS UNLESS OTHERWISE INDICATED.
- REGRADE STOCKPILE AREA AFTER REMOVAL OF SURPLUS MATERIALS (SEE SITE WORK SPECIFICATIONS). LOAM AND SEED THE DISTURBED AREA.
- TOPSOIL STRIPPED FROM THE SITE AND PROPERLY STOCKPILED PRIOR TO APPLICATION MAY, UPON APPROVAL OF THE OWNERS REPRESENTATIVE, BE USED FOR PREPARATION OF PLANTING BEDS. IT SHOULD BE FREE OF LARGE COBBLES, ROOTS, OLD SOD, TRASH, OR OTHER CONTAMINANTS AND BE OF A FRIABLE CONSISTENCY AND SUITABLE FOR PLANT GROWTH.
- PROVIDE SOIL TEST REPORTS FOR ONSITE TOP SOIL TO BE REUSED AND FOR LOAM BORROW TO BE IMPORTED. SOIL TEST REPORT SHALL INCLUDE DATA FOR STANDARD CLASSIFICATION, TEXTURAL SIEVE ANALYSIS, AS WELL AS NUTRIENT AND MICRO-NUTRIENTS ANALYSIS.
- THE LANDSCAPE CONTRACTOR SHALL FURNISH LOAM BORROW/ TOPSOIL. LOAM SHALL BE FERTILE, FRIABLE, NATURAL AND PRODUCTIVE TOPSOIL OF GOOD CLAY-LOAM TO SANDY LOAM TYPE. LOAM SHALL BE WITHOUT ADMIXTURE OF SUBSOIL AND SHALL BE REASONABLY FREE OF STONES, LUMPS, ROOTS, STICKS, ADVISIVE SEED OR STICK AND OTHER FOREIGN MATTER. LOAM SHALL NOT BE WORKED OR APPLIED IN A MUDDY OR WET CONDITION.
- PROVIDE SOIL AMENDMENTS AS DIRECTED BY THE A/E BASED UPON THE FINDINGS OF SOIL TESTS PROVIDED FOR EXISTING TOP SOIL TO BE REUSED AND OR IMPORTED MATERIAL.

EROSION CONTROL AND CONSTRUCTION SEQUENCING NOTES CONT.

CONSTRUCTION SEQUENCE

- THIS SECTION PROVIDES THE OWNER AND THE CONTRACTOR WITH A SUGGESTED ORDER OF CONSTRUCTION THAT SHALL MINIMIZE EROSION AND THE TRANSPORT OF SEDIMENTS. THE INDIVIDUAL OBJECTIVES OF THE CONSTRUCTION TECHNIQUES DESCRIBED HEREIN SHALL BE CONSIDERED AN INTEGRAL COMPONENT OF THE PROJECT DESIGN INTENT OF EACH PROJECT PHASE. THE CONSTRUCTION SEQUENCE IS NOT INTENDED TO PRESCRIBE DEFINITIVE CONSTRUCTION METHODS AND SHOULD NOT BE INTERPRETED AS A CONSTRUCTION SPECIFICATION DOCUMENT. HOWEVER, THE CONTRACTOR SHALL FOLLOW THE FOLLOWING GENERAL PRINCIPLES DURING THE CONSTRUCTION PHASE:

- PROTECT AND MAINTAIN EXISTING VEGETATION WHEREVER POSSIBLE.
 - MINIMIZE THE AREA OF DISTURBANCE.
 - TO THE EXTENT POSSIBLE, ROUTE UNPOLLUTED FLOWS AROUND DISTURBED AREAS.
 - INSTALL MITIGATION DEVICES AS EARLY AS POSSIBLE.
 - MINIMIZE THE TIME DISTURBED AREAS ARE LEFT UNSTABILIZED.
 - MAINTAIN SILTATION CONTROL DEVICES IN PROPER CONDITION.
- THE CONTRACTOR SHOULD USE THE SUGGESTED CONSTRUCTION SEQUENCE AND TECHNIQUES AS A GENERAL GUIDE AND MODIFY THE SUGGESTED METHODS AND PROCEDURES AS REQUIRED TO BEST SUIT SEASONAL, ATMOSPHERIC, AND SITE-SPECIFIC PHYSICAL CONSTRAINTS FOR THE PURPOSE OF MINIMIZING THE ENVIRONMENTAL IMPACT OF CONSTRUCTION.

SUGGESTED ORDER OF WORK

- DEMOLITION, GRUBBING, AND STRIPPING TO LIMITS OF CONSTRUCTION PHASE
 - INSTALL TEC DEVICES AS REQUIRED TO PREVENT SEDIMENT TRANSPORT INTO RESOURCE AREAS.
 - PLACE A RING OF STAKED SILT SOCKS AROUND STOCKPILES.
 - STABILIZE ALL EXPOSED SURFACES THAT WILL NOT BE UNDER IMMEDIATE CONSTRUCTION.
 - STORE AND/OR DISPOSE ALL PAVEMENT AND BUILDING DEMOLITION DEBRIS AS INDICATED AND IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
 - REVIEW ENVIRONMENTAL HEALTH AND SAFETY PLAN PRIOR TO EXCAVATION.
- SUBBASE CONSTRUCTION
 - INSTALL TEMPORARY CULVERTS AND DIVERSION DITCHES AND ADDITIONAL TEC DEVICES AS REQUIRED BY INDIVIDUAL CONSTRUCTION AREA CONSTRAINTS TO DIRECT POTENTIAL RUNOFF TOWARD DETENTION AREAS DESIGNATED FOR THE CURRENT CONSTRUCTION PHASE.
 - COMPACT GRAVEL AS WORK PROGRESSES TO CONTROL EROSION POTENTIAL.
 - APPLY WATER TO CONTROL AIR SUSPENSION OF DUST.
 - AVOID CREATING AN EROISVE CONDITION DUE TO OVER-WATERING.
 - INSTALL RIPPED UTILITY SYSTEMS AS REQUIRED AS WORK PROGRESSES, KEEPING ALL INLETS SEALED UNTIL ALL DOWNSTREAM DRAINAGE SYSTEM COMPONENTS ARE FUNCTIONAL.
- BINDER CONSTRUCTION
 - FINE GRADE GRAVEL BASE AND INSTALL PROCESS GRAVEL TO THE DESIGN GRADES.
 - COMPACT PAVEMENT BASE AS WORK PROGRESSES.
 - INSTALL PAVEMENT BINDER COAT STARTING FROM THE DOWNHILL END OF THE SITE AND WORK TOWARD THE TOP.
- FINISH PAVING
 - REPAIR AND STABILIZE DAMAGED SIDE SLOPES.
 - CLEAN INVERTS OF DRAINAGE STRUCTURES.
 - INSTALL FINAL TOP COAT OF PAVEMENT.
- FINAL CLEAN-UP
 - CLEAN INVERTS OF CULVERTS AND CATCH BASINS.
 - REMOVE SEDIMENT AND DEBRIS FROM RIP-RAP OUTLET AREAS.
 - REMOVE TEC DEVICES ONLY AFTER PERMANENT VEGETATION AND EROSION CONTROL HAS BEEN FULLY ESTABLISHED.

IRRIGATION NOTES

- SITE INCLUDES PORTIONS OF EXISTING IRRIGATION TO BE ADJUSTED PER PROPOSED CHANGES AND REPAIRED WHEREVER DAMAGED BY NEW CONSTRUCTION.
- IDENTIFY EXISTING LAYOUT WITH OWNER AND COORDINATE SUB PAVEMENT SLEEVES FOR NEW WORK WHERE NECESSARY.
- IRRIGATION INSTALLER IS RESPONSIBLE FOR, BUT NOT LIMITED TO, THE INSTALLATION OF THIS IRRIGATION EQUIPMENT AS INDICATED ON PLANS. FOLLOW ALL APPLICABLE CODES AND LAWS.
- COORDINATE ALL WORK WITH THE TOWN DPW.

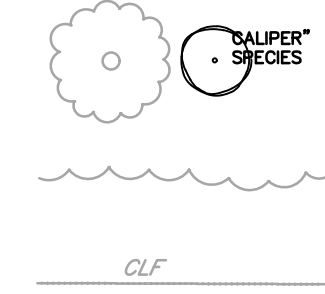
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STATE		SHEET NO.	TOTAL SHEETS
MA		T1.1	24
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NOTES AND LEGENDS 05/20/2020 PERMIT

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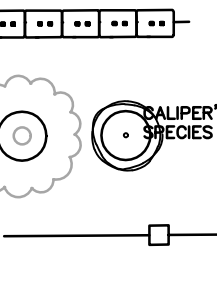
SIGN, POST MOUNT (WF WAY FINDING), (P. PARKING)

INTERPRETIVE SIGN A (24X36 POST MOUNT)

INTERPRETIVE SIGN B (14" RAIL MOUNT)

SHAROW (BICYCLE SHARED ROAD PAVEMENT MARKING)

PROPOSED



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SPOT GRADE PROPOSED

SPOT GRADE PROPOSED MEET EXISTING

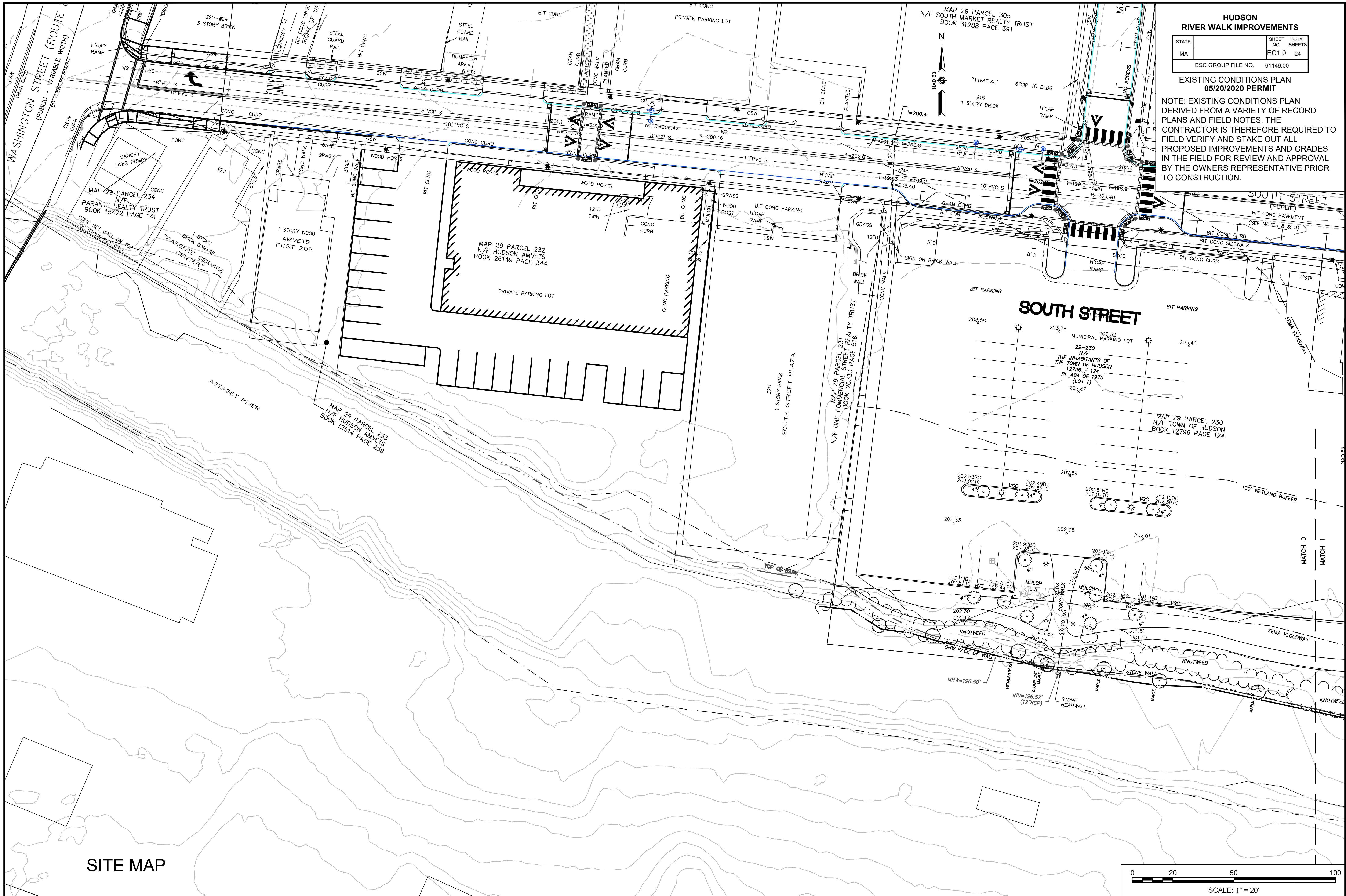
SIGN, POST MOUNT (WF WAY FINDING), (P. PARKING)

INTERPRETIVE SIGN A (24X36 POST MOUNT)

INTERPRETIVE SIGN B (14" RAIL MOUNT)

SHAROW (BICYCLE SHARED ROAD PAVEMENT MARKING)

- EROSION CONTROL BARRIER
- TREE
- TREE PROTECTION
- TREE LINE
- METAL PICKET FENCE
- CHAIN LINK FENCE
- REMOVAL AND DISPOSE/STORE OF FENCE
- REMOVE AND REUSE
- REMOVE AND STORE
- REMOVE AND DISPOSE
- INVASIVE SPECIES MANAGEMENT AREA
- GRASS MICROSWALE
- CONSERVATION SEEDING, PLANTING
- LAWN SEEDING
- WALK (CEMENT CONCRETE)
- UNDERGROUND TELEPHONE LINE
- OVERHEAD WIRE
- UNDERGROUND ELECTRIC CONDUIT
- LIGHT BOLLARD (A, B)
- ELECTRICAL HAND HOLE
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN/ CB PROTECTION
- DRAIN MANHOLE
- ELECTRIC MANHOLE
- SEWER MANHOLE
- WATER MANHOLE
- MISCELLANEOUS MANHOLE
- WATER GATE
- HYDRANT
- UNDERGROUND WATER LINE
- UNDERGROUND DRAIN LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- INVERT
- CONTOUR
- PROPOSED SLOPE
- SPOT GRADE PROPOSED
- SPOT GRADE PROPOSED MEET EXISTING
- SIGN, POST MOUNT (WF WAY FINDING), (P. PARKING)
- INTERPRETIVE SIGN A (24X36 POST MOUNT)
- INTERPRETIVE SIGN B (14" RAIL MOUNT)
- SHAROW (BICYCLE SHARED ROAD PAVEMENT MARKING)





SITE MAP

**HUDSON
RIVER WALK IMPROVEMENTS**

STATE	SHEET NO.	TOTAL SHEETS
MA	EC1.1	24
BSC GROUP FILE NO. 61149.00		

EXISTING CONDITIONS PLAN
05/20/2020 PERMIT

NOTE: EXISTING CONDITIONS PLAN DERIVED FROM A VARIETY OF RECORD PLANS AND FIELD NOTES. THE CONTRACTOR IS THEREFORE REQUIRED TO FIELD VERIFY AND STAKE OUT ALL PROPOSED IMPROVEMENTS AND GRADES IN THE FIELD FOR REVIEW AND APPROVAL BY THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION.



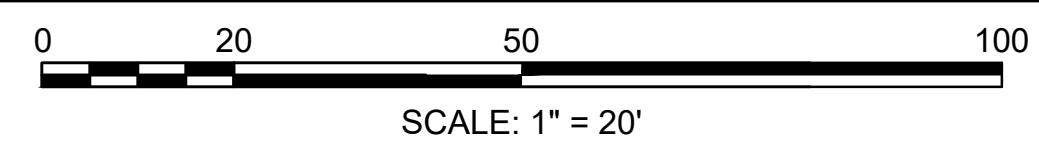
SITE MAP

HUDSON
RIVER WALK IMPROVEMENTS

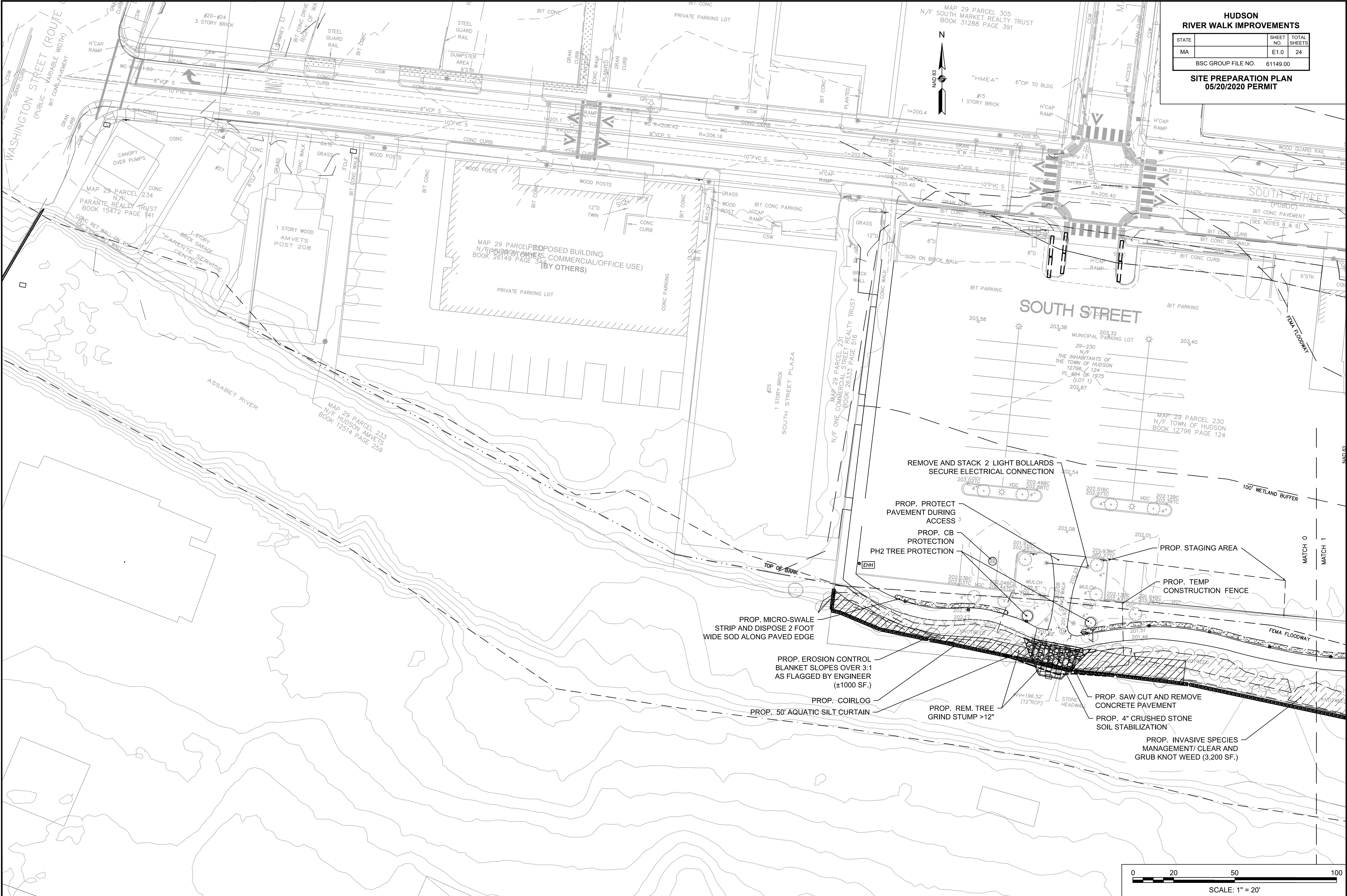
STATE	SHEET NO.	TOTAL SHEETS
MA	EC1.2	24
BSC GROUP FILE NO.		61149.00

EXISTING CONDITIONS PLAN
05/20/2020 PERMIT

NOTE: EXISTING CONDITIONS PLAN
DERIVED FROM A VARIETY OF RECORD
PLANS AND FIELD NOTES. THE
CONTRACTOR IS THEREFORE REQUIRED TO
FIELD VERIFY AND STAKE OUT ALL
PROPOSED IMPROVEMENTS AND GRADES
IN THE FIELD FOR REVIEW AND APPROVAL
BY THE OWNERS REPRESENTATIVE PRIOR
TO CONSTRUCTION.



80 FEET

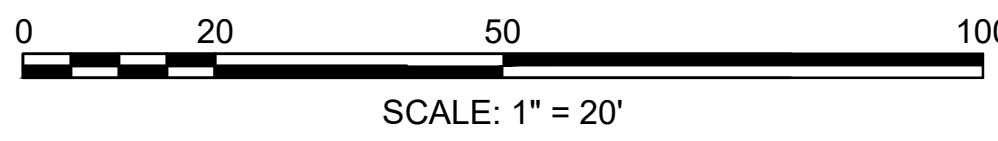


HUDSON
RIVER WALK IMPROVEMENTS

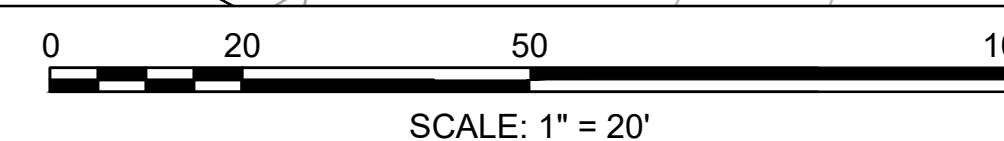
STATE		SHEET NO.	TOTAL SHEETS
MA		E1.0	24

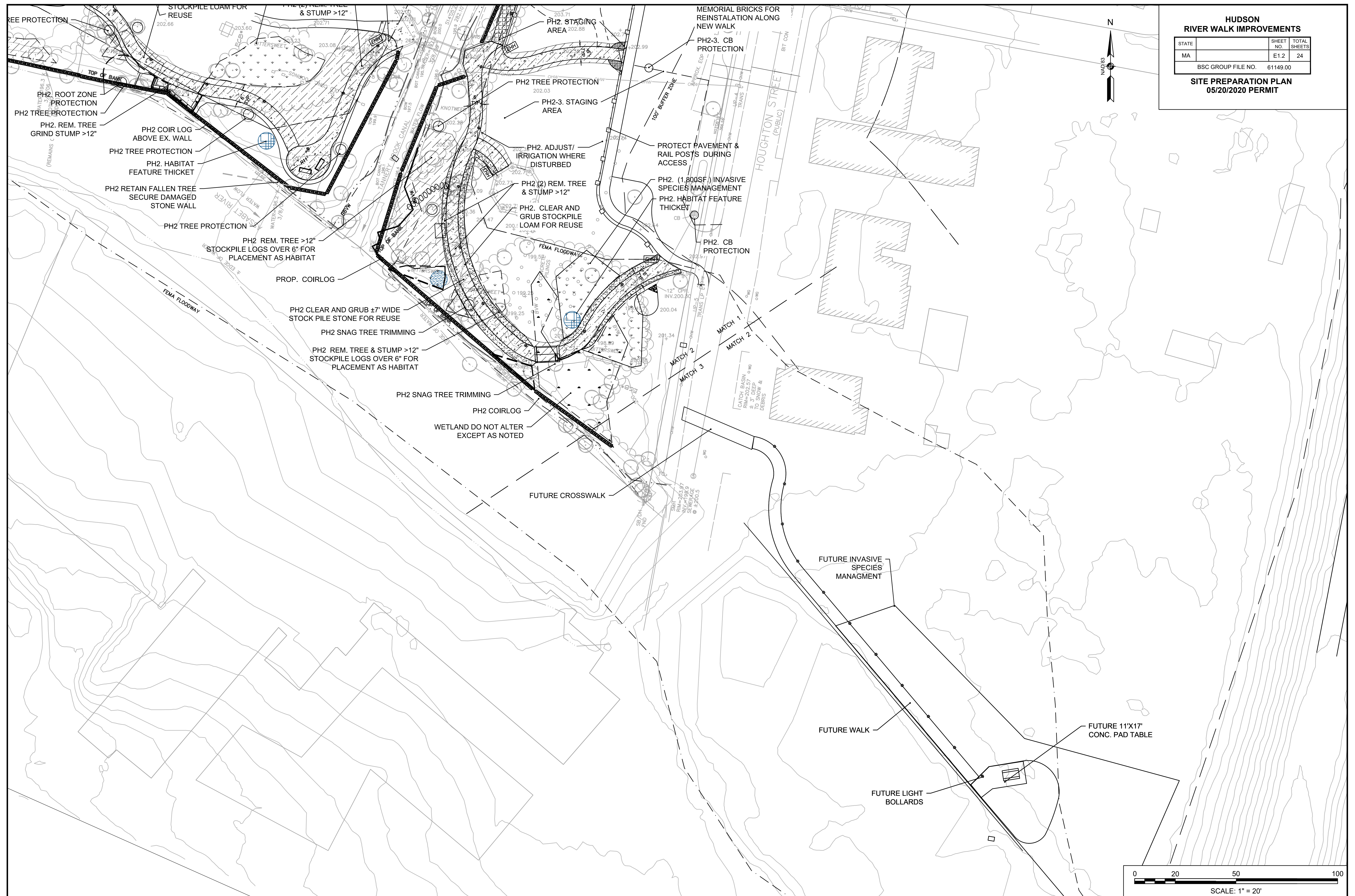
BSC GROUP FILE NO. 61149.00

SITE PREPARATION PLAN
05/20/2020 PERMIT



STATE		SHEET NO.	TOTAL SHEETS
MA		E.1.1	2
BSC GROUP FILE NO.		61149.00	

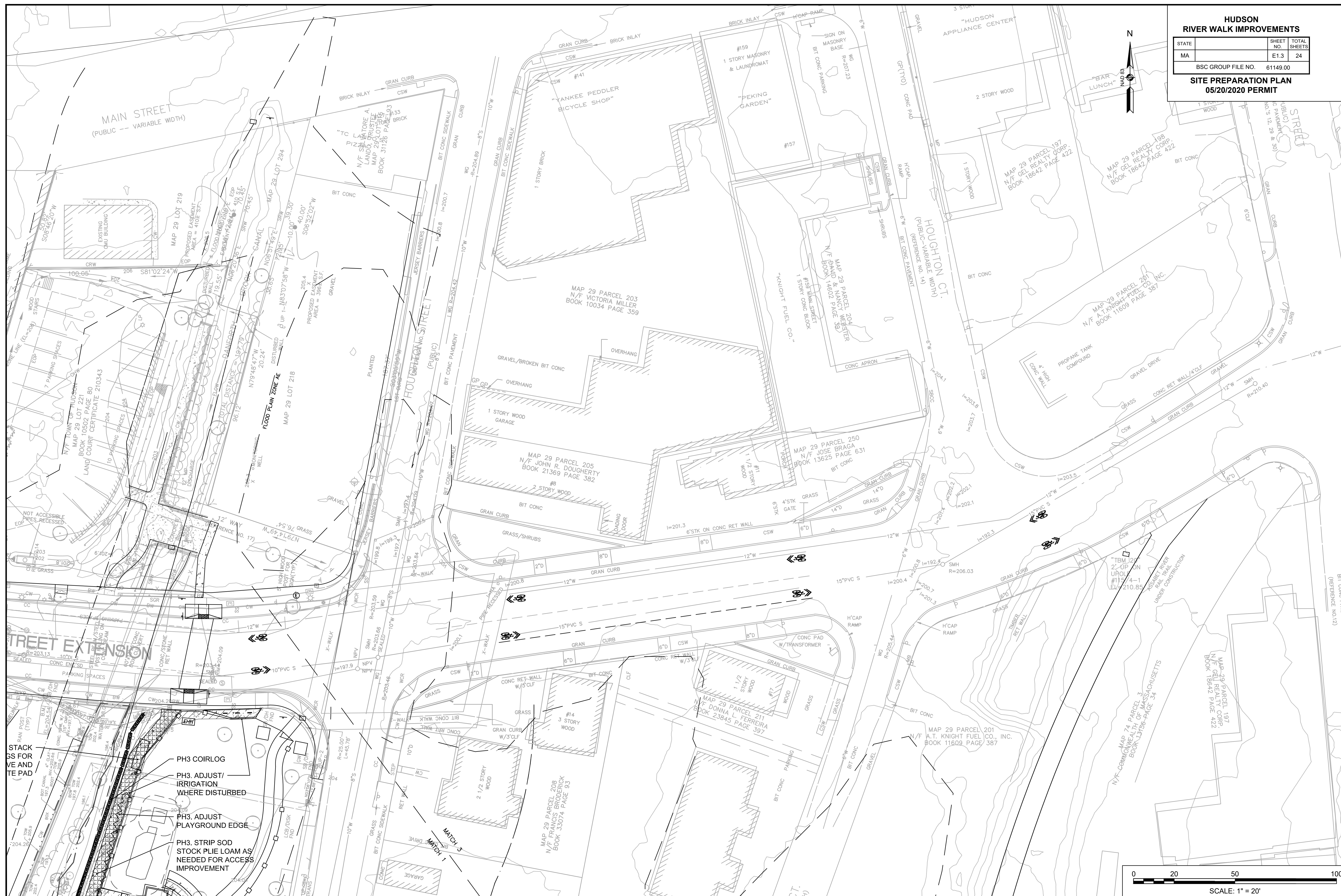


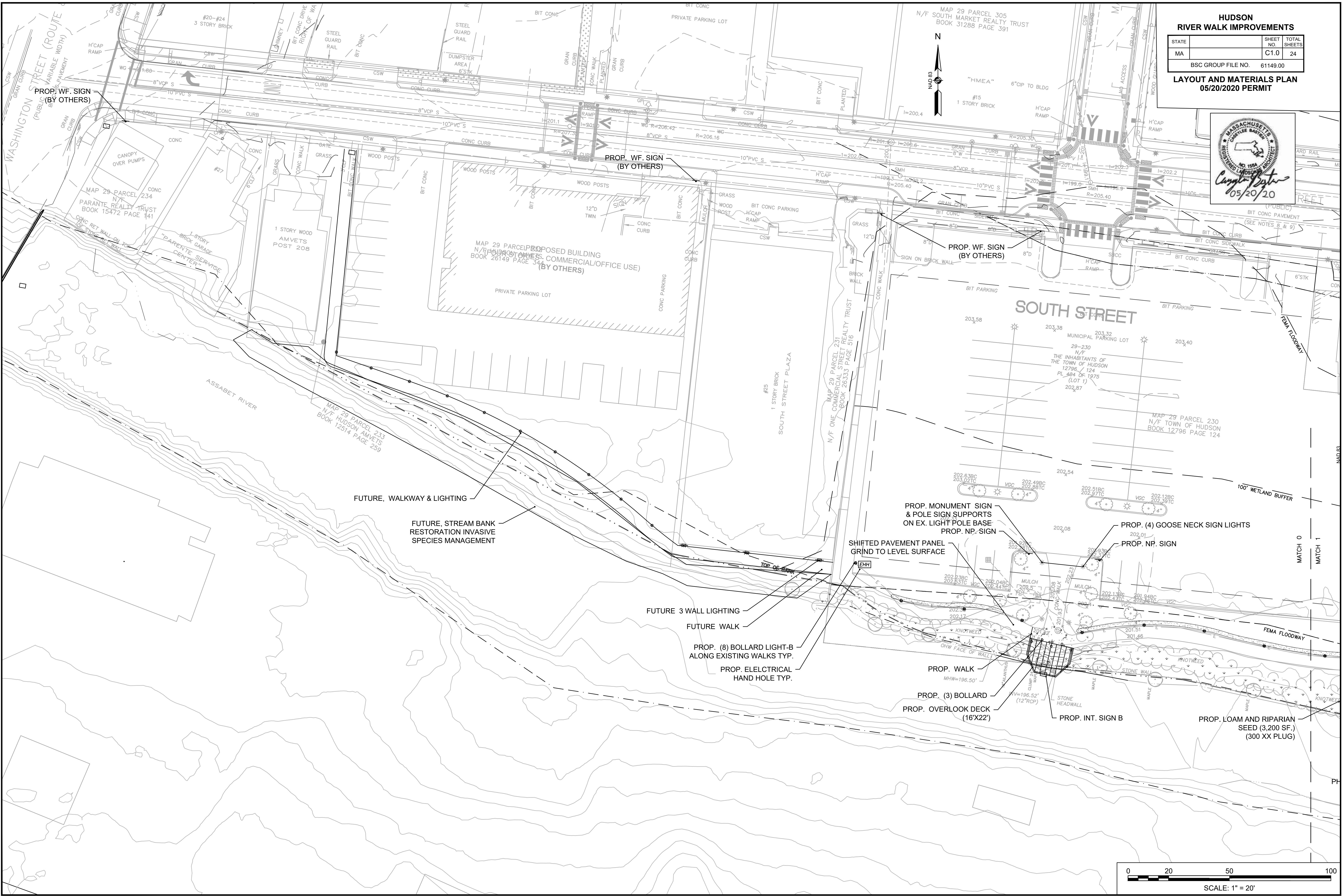


HUDSON RIVER WALK IMPROVEMENTS

STATE		SHEET NO.	TOTAL SHEETS
MA		E1.3	2
BSC GROUP FILE NO.		61149.00	

SITE PREPARATION PLAN
05/20/2020 PERMIT



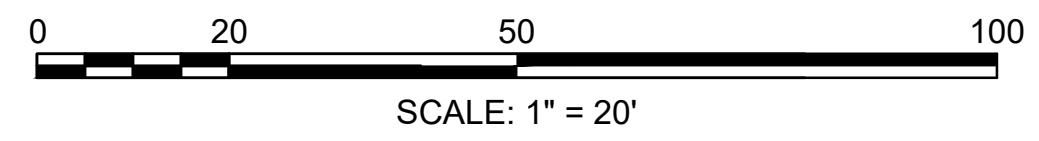
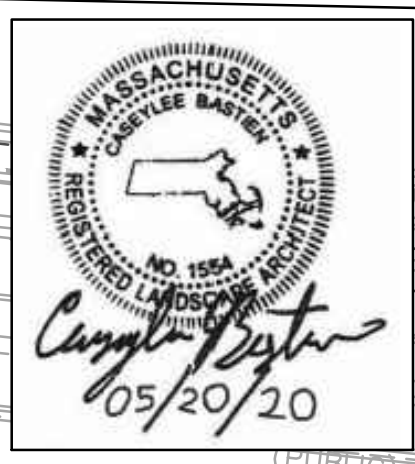


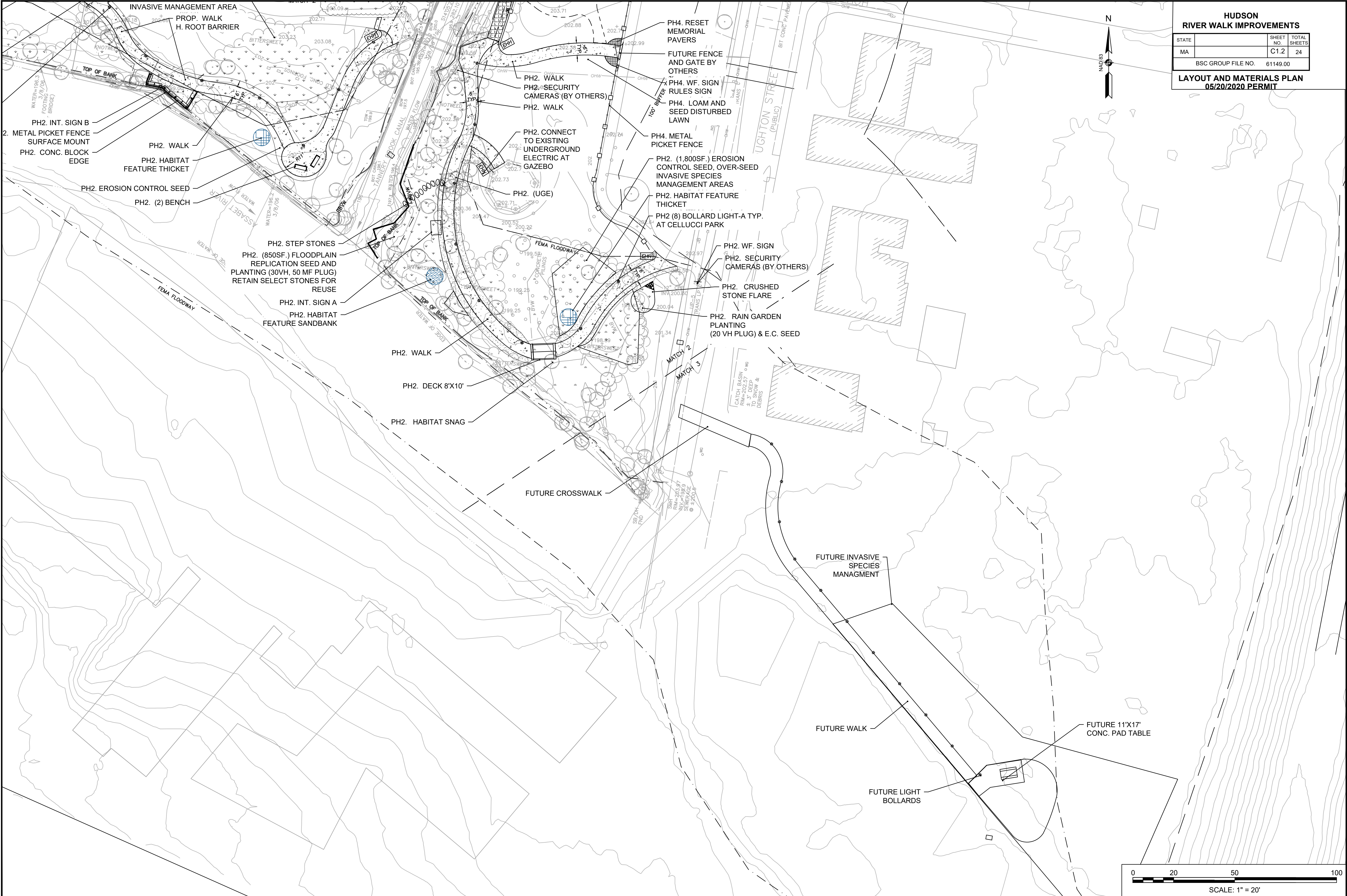
HUDSON

RIVER WALK IMPROVEMENTS

STATE	MA	SHEET NO.	C1.0	TOTAL SHEETS	24
BSC GROUP FILE NO.		61149.00			

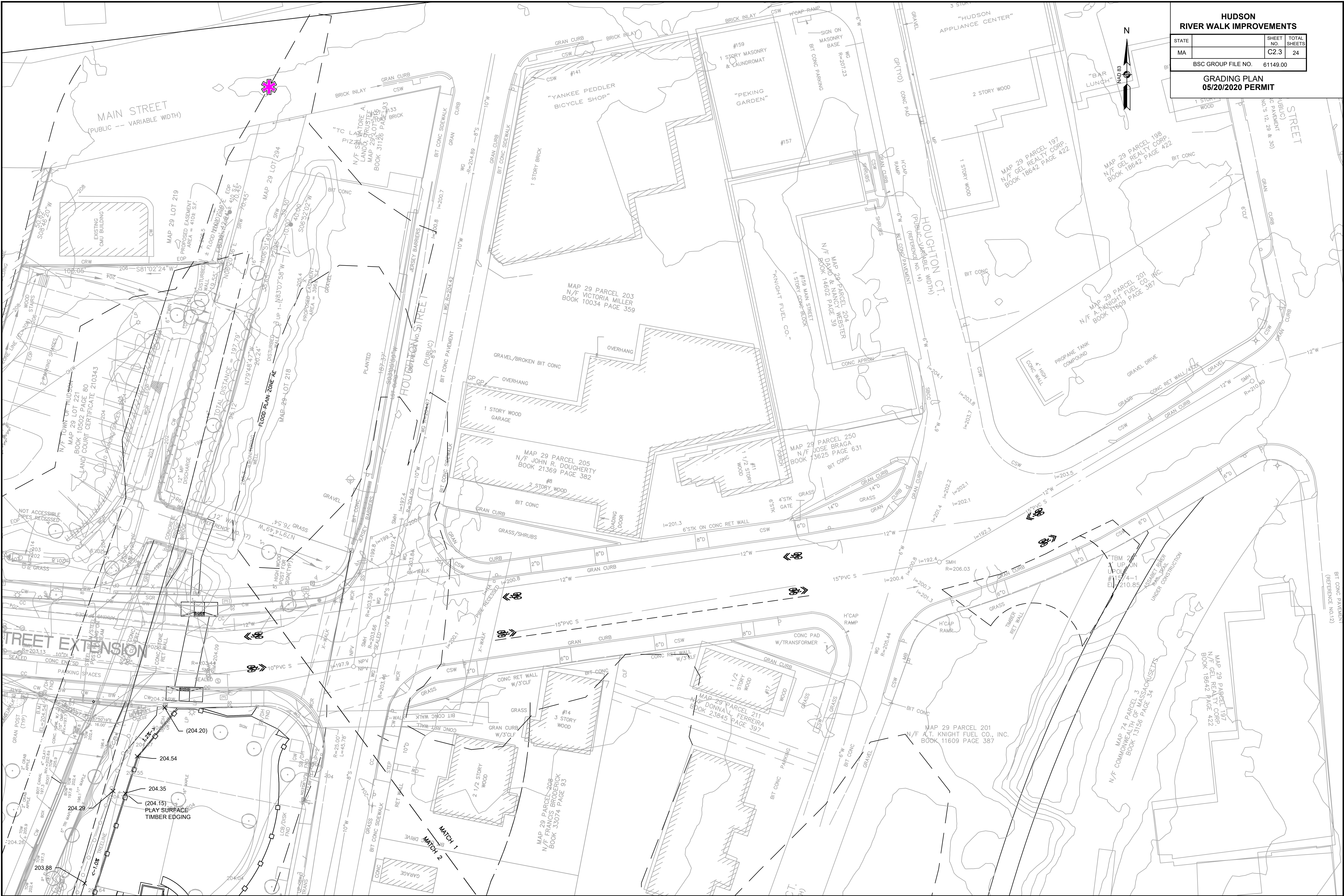
LAYOUT AND MATERIALS PLAN
05/20/2020 PERMIT



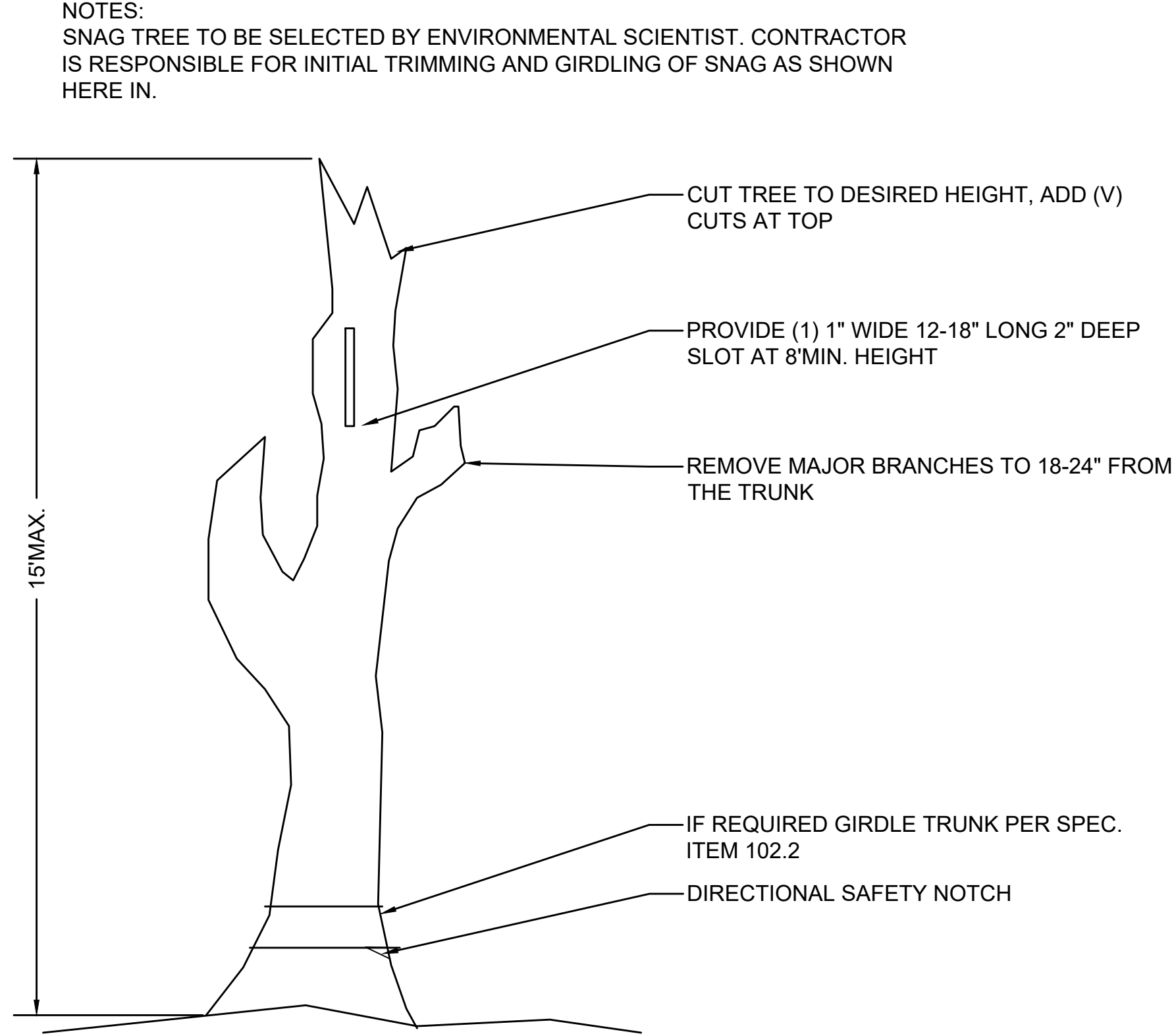


HUDSON RIVER WALK IMPROVEMENTS			
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MA		C1.2	24
BSC GROUP FILE NO.		61149.00	
LAYOUT AND MATERIALS PLAN 05/20/2020 PERMIT			



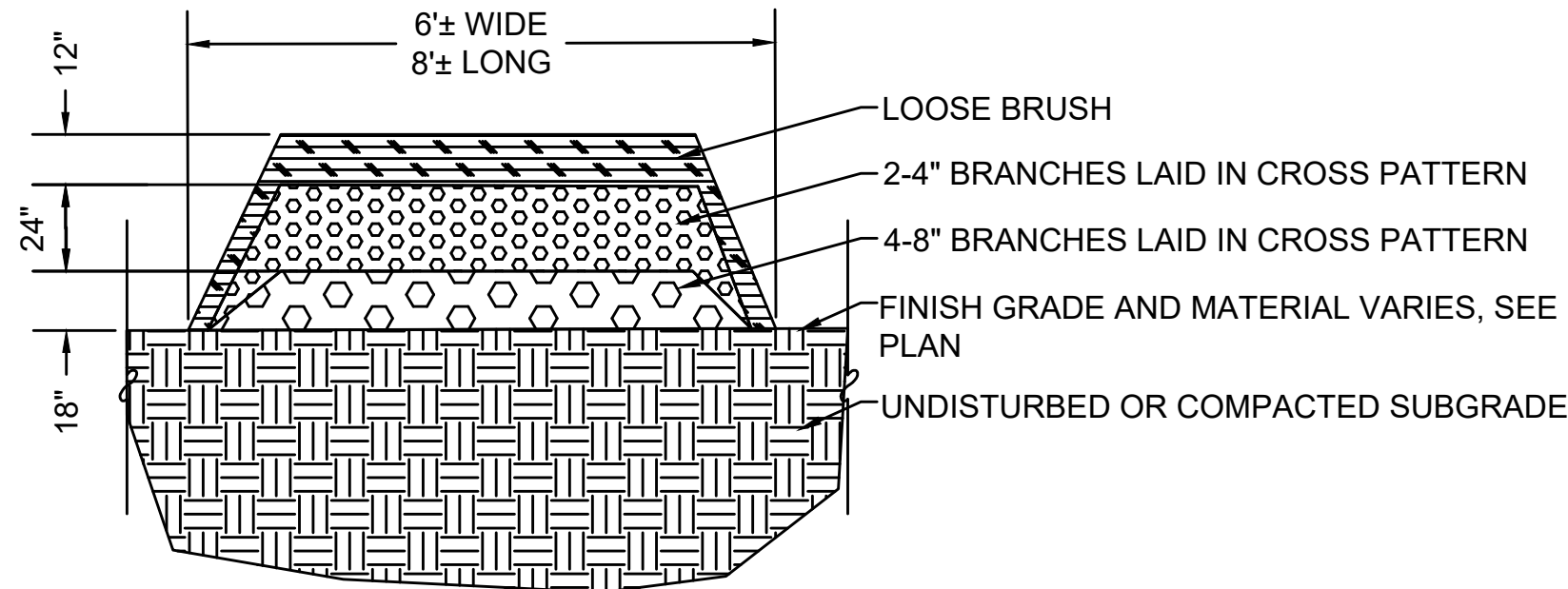


HUDSON RIVER WALK IMPROVEMENTS			
STATE		SHEET NO.	TOTAL SHEETS
MA		C2.3	24
BSC GROUP FILE NO.		61149.00	
GRADING PLAN 05/20/2020 PERMIT			

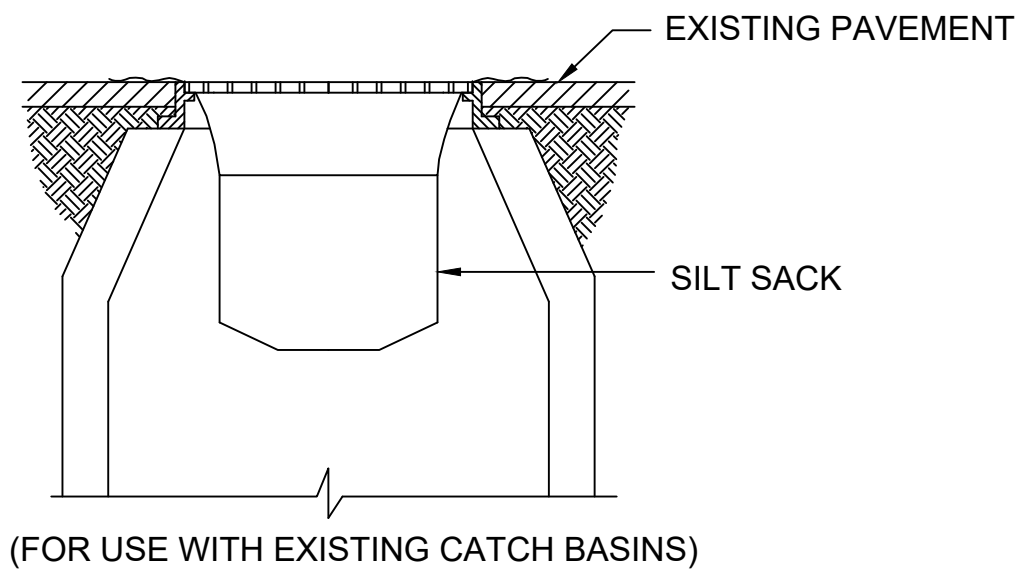


HABITAT SNAG TREE
SCALE: NONE

NOTES:
THICKET BRUSH PILE SHALL CONSIST OF WOODY MATERIAL CLEARED FROM THE SITE CUT TO SIZE AND PLACED AS DIRECTED.
BRUSH MAY NOT INCLUDE INVASIVE WEED SEED. REVIEW MATERIAL TO BE SET ASIDE FOR BRUSH PILE WITH DOT WETLAND SPECIALIST OR LANDSCAPE ARCHITECT.

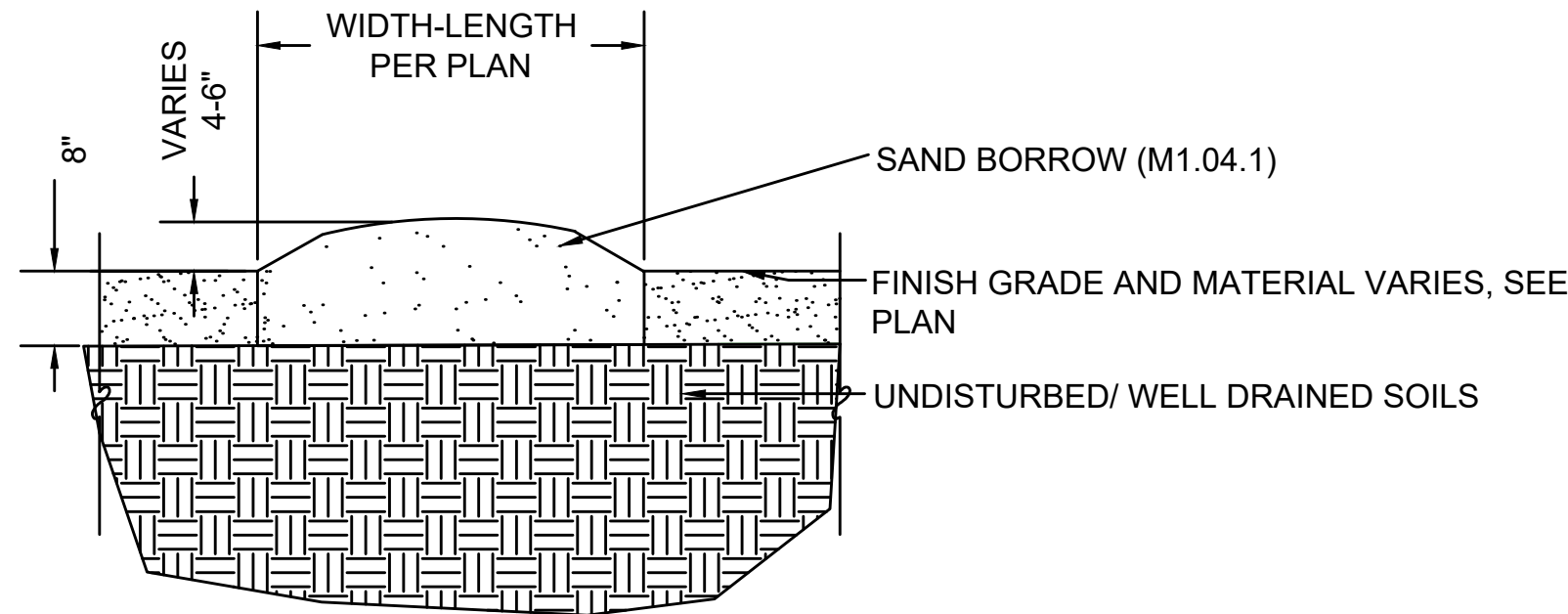


HABITAT THICKET - BRUSH PILE
SCALE: NONE

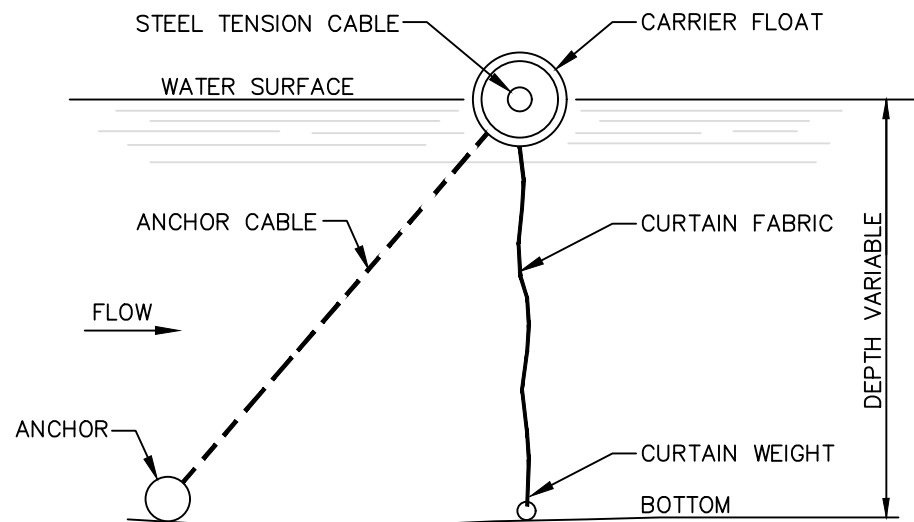


NOTE: SILT SACKS TO BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF NEW CONSTRUCTION. CATCH BASINS ARE TO BE PROTECTED AS SHOWN, WITH MINIMUM WEEKLY MAINTENANCE, OR AS REQUIRED AND REPLACED IF NECESSARY.

SILT SACK INLET
PROTECTION DETAIL
NOT TO SCALE

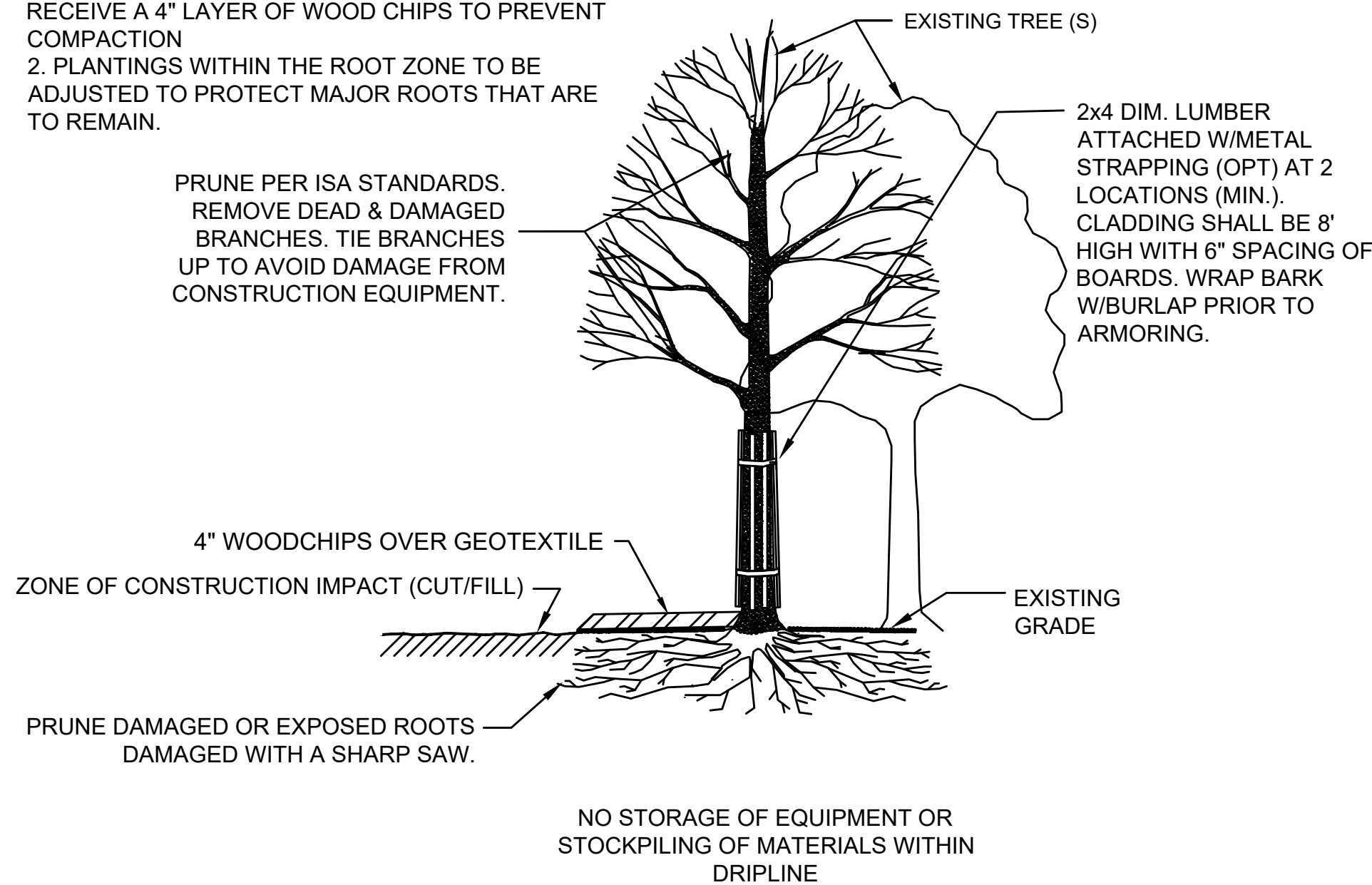


HABITAT SAND BANK
SCALE: NONE

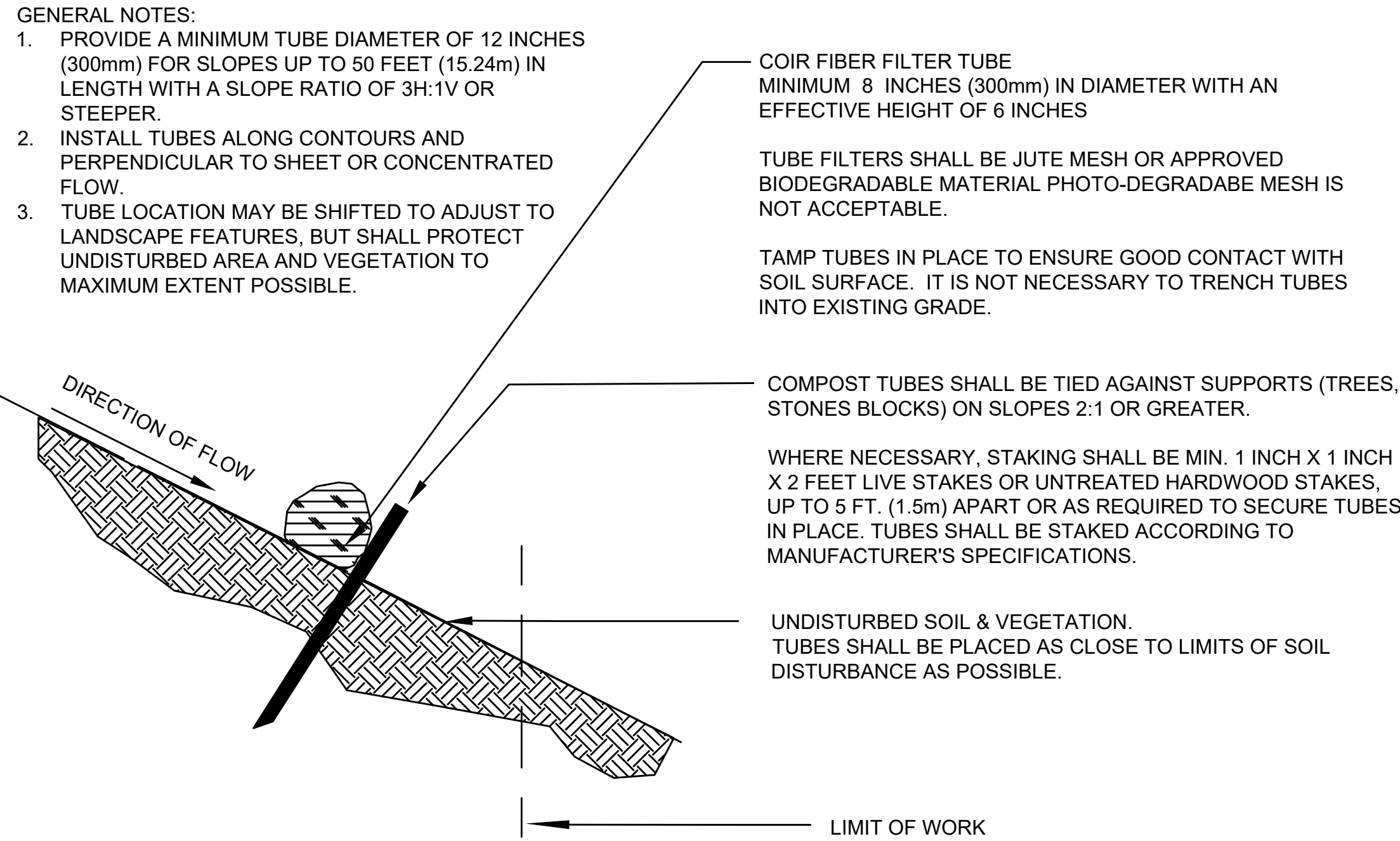


SILT CURTAIN
SCALE: NONE

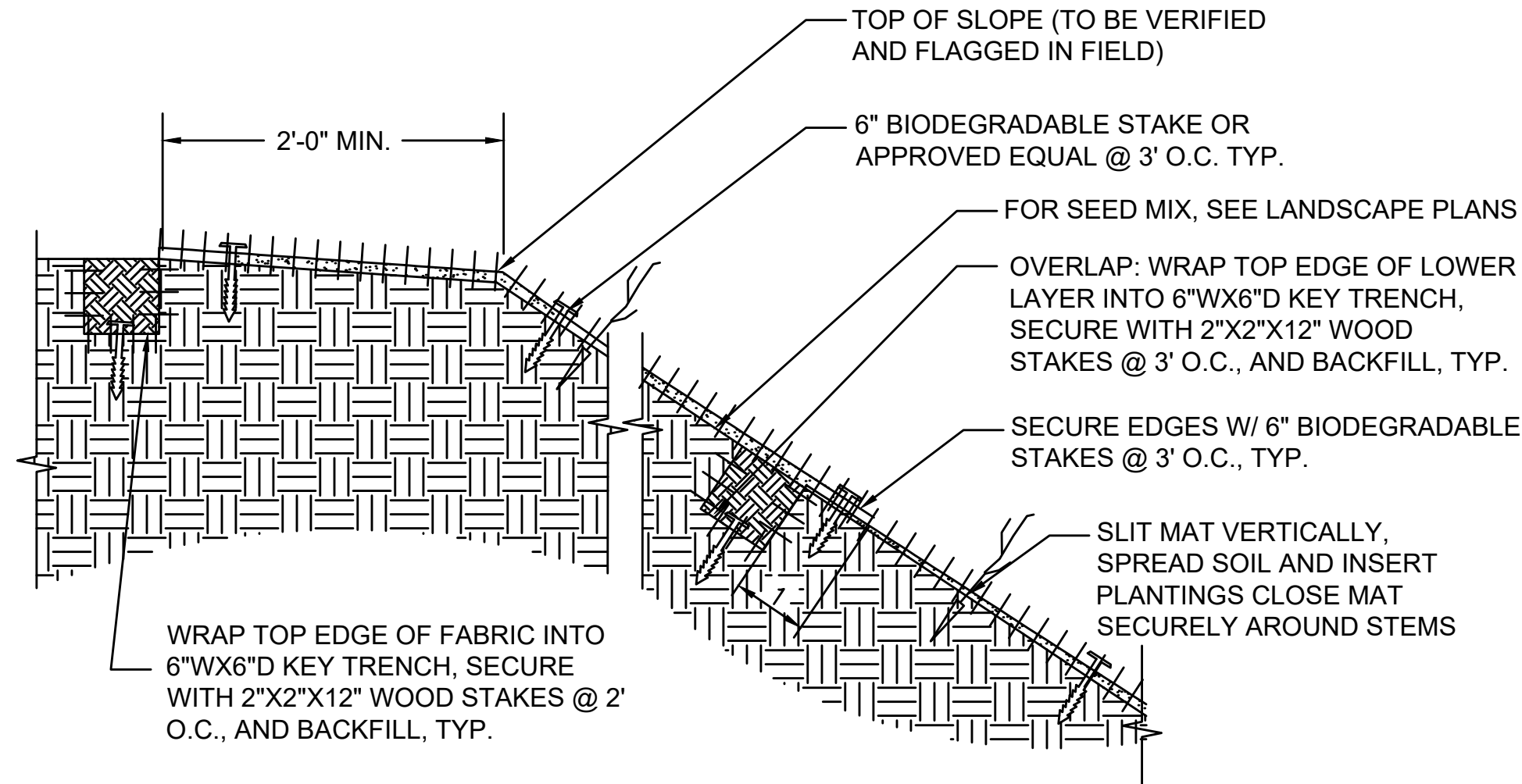
NOTE:
1. ROOT ZONES WITHIN WORK AREA SHALL RECEIVE A 4" LAYER OF WOOD CHIPS TO PREVENT COMPACTION
2. PLANTINGS WITHIN THE ROOT ZONE TO BE ADJUSTED TO PROTECT MAJOR ROOTS THAT ARE TO REMAIN.



TREE PROTECTION - EXISTING TREE(S)
SCALE: NONE

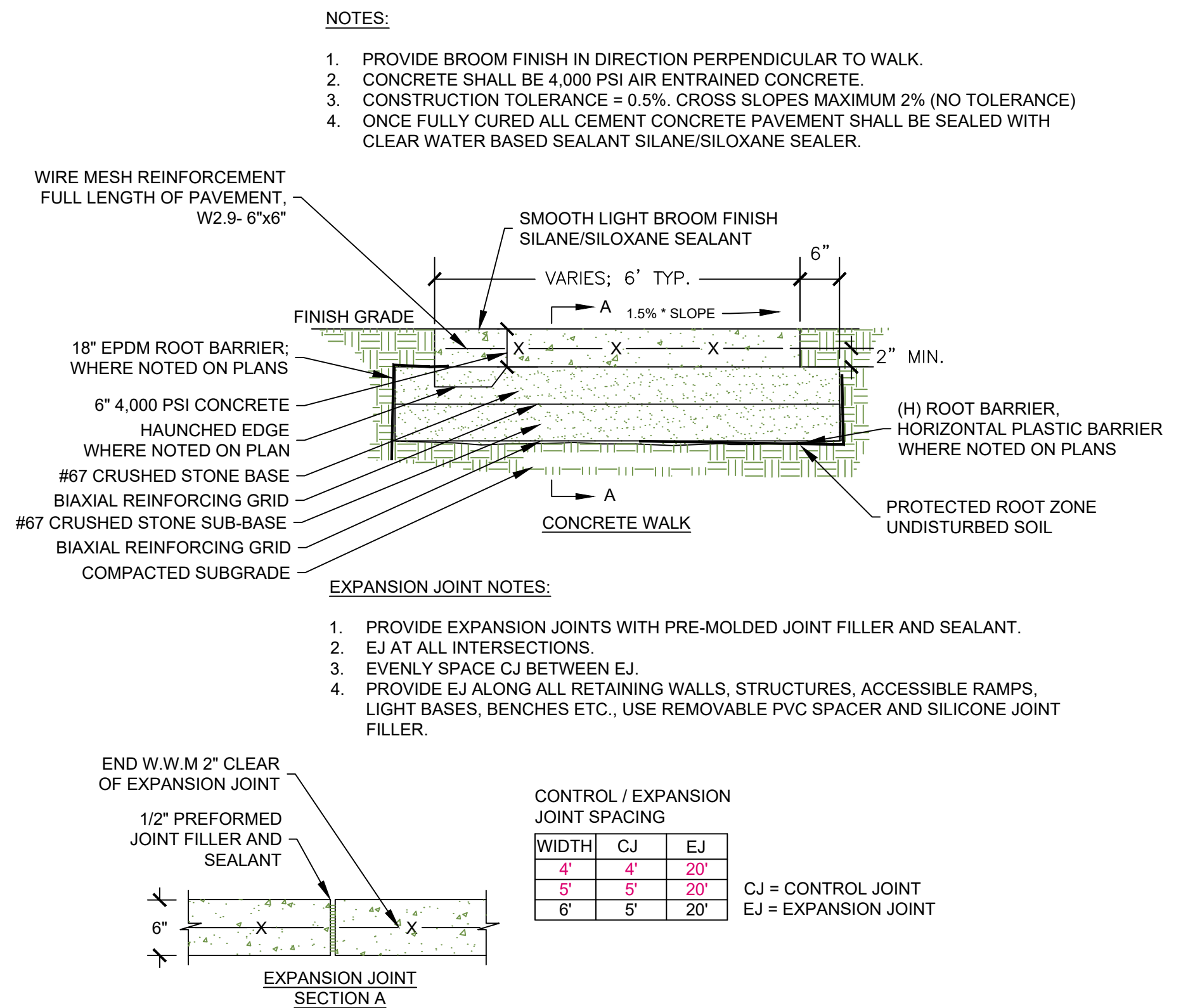
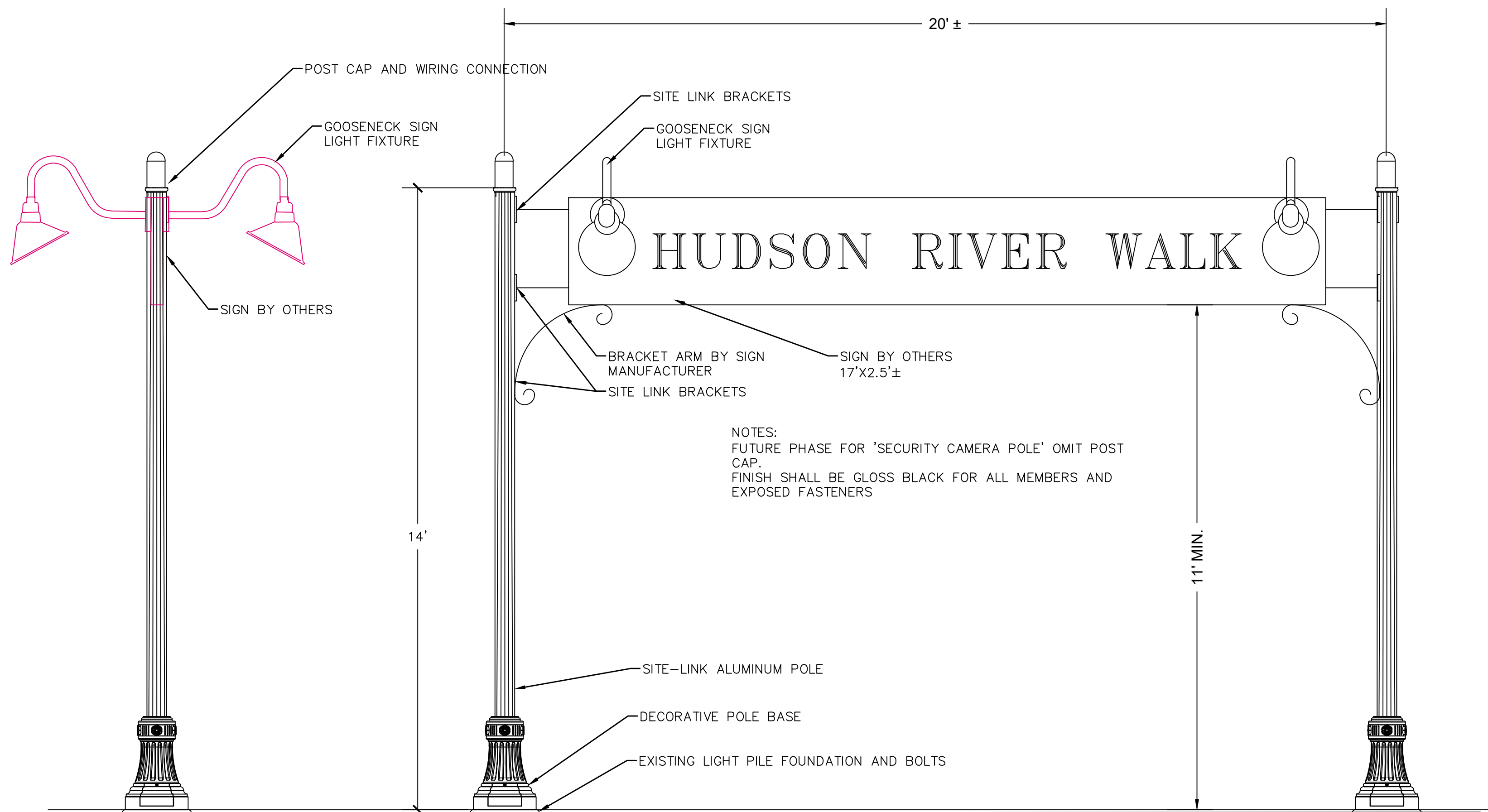
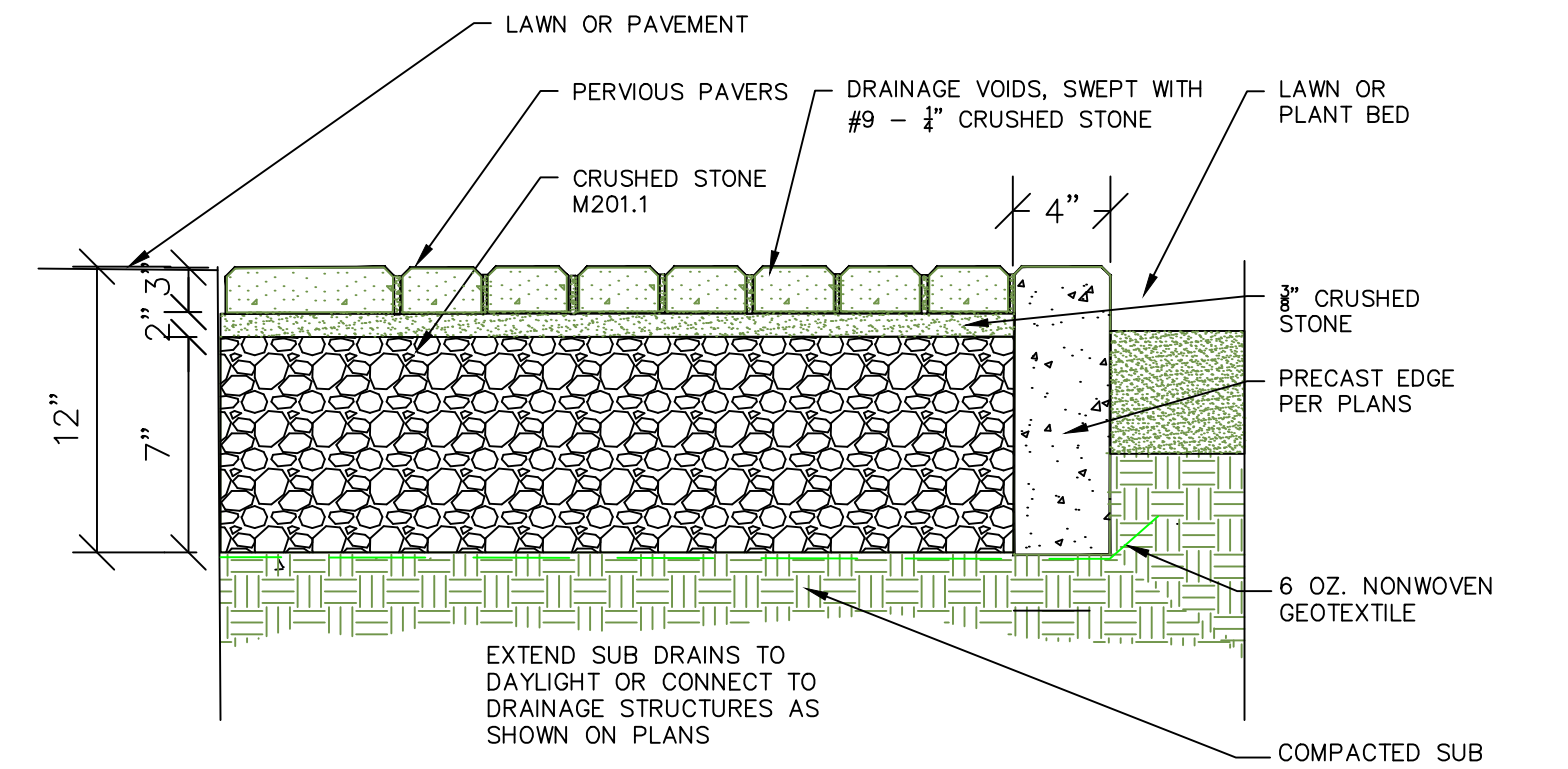
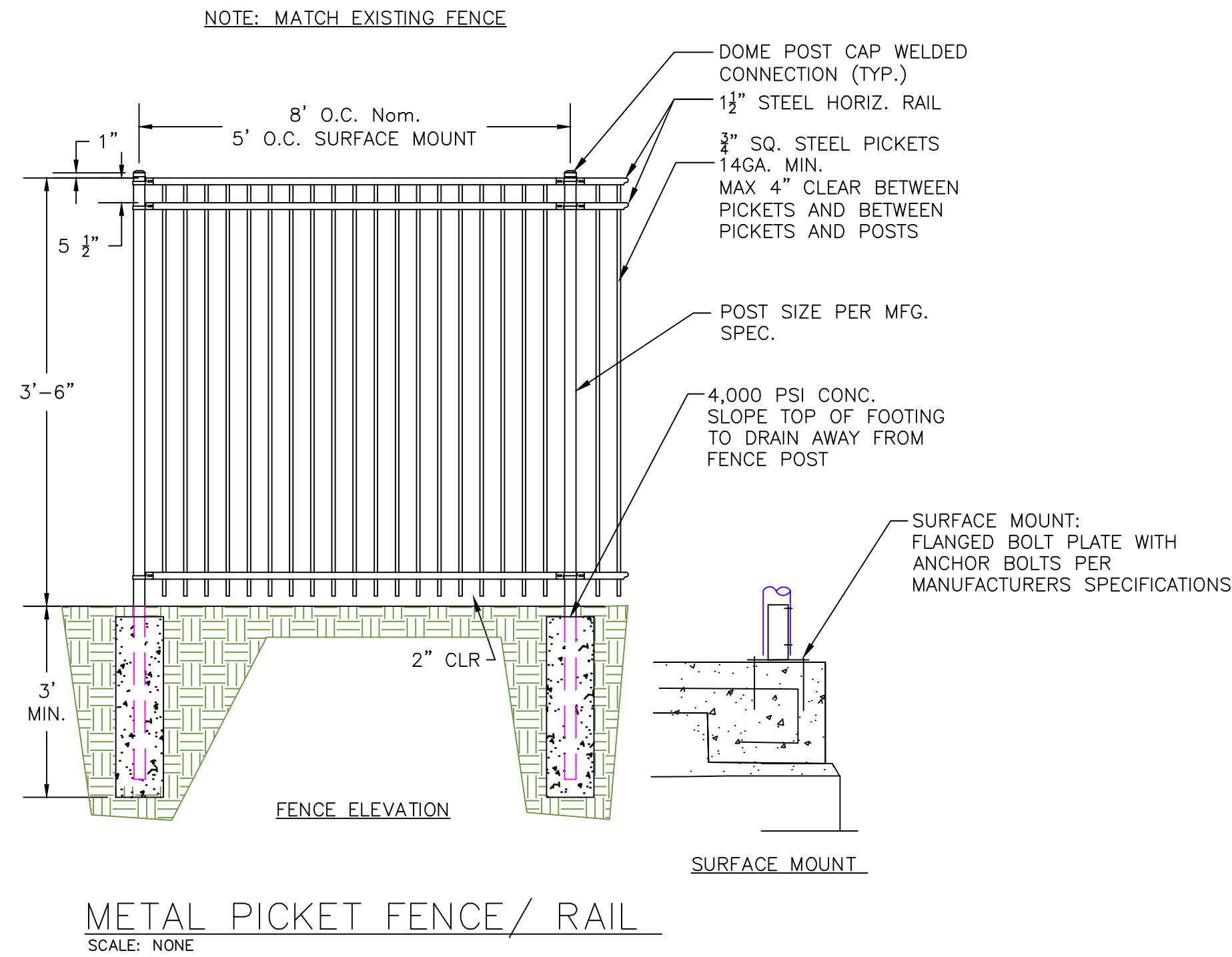
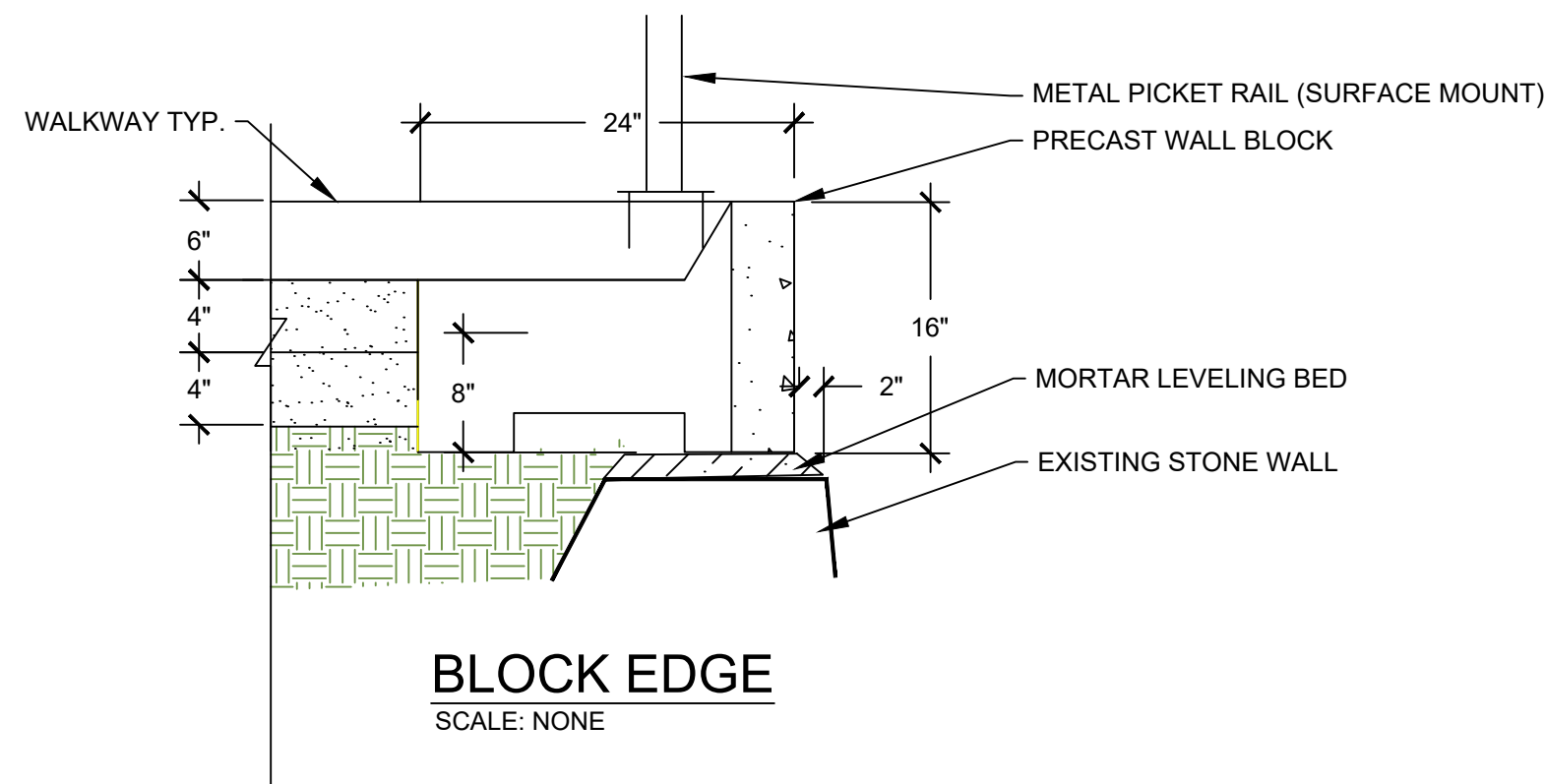
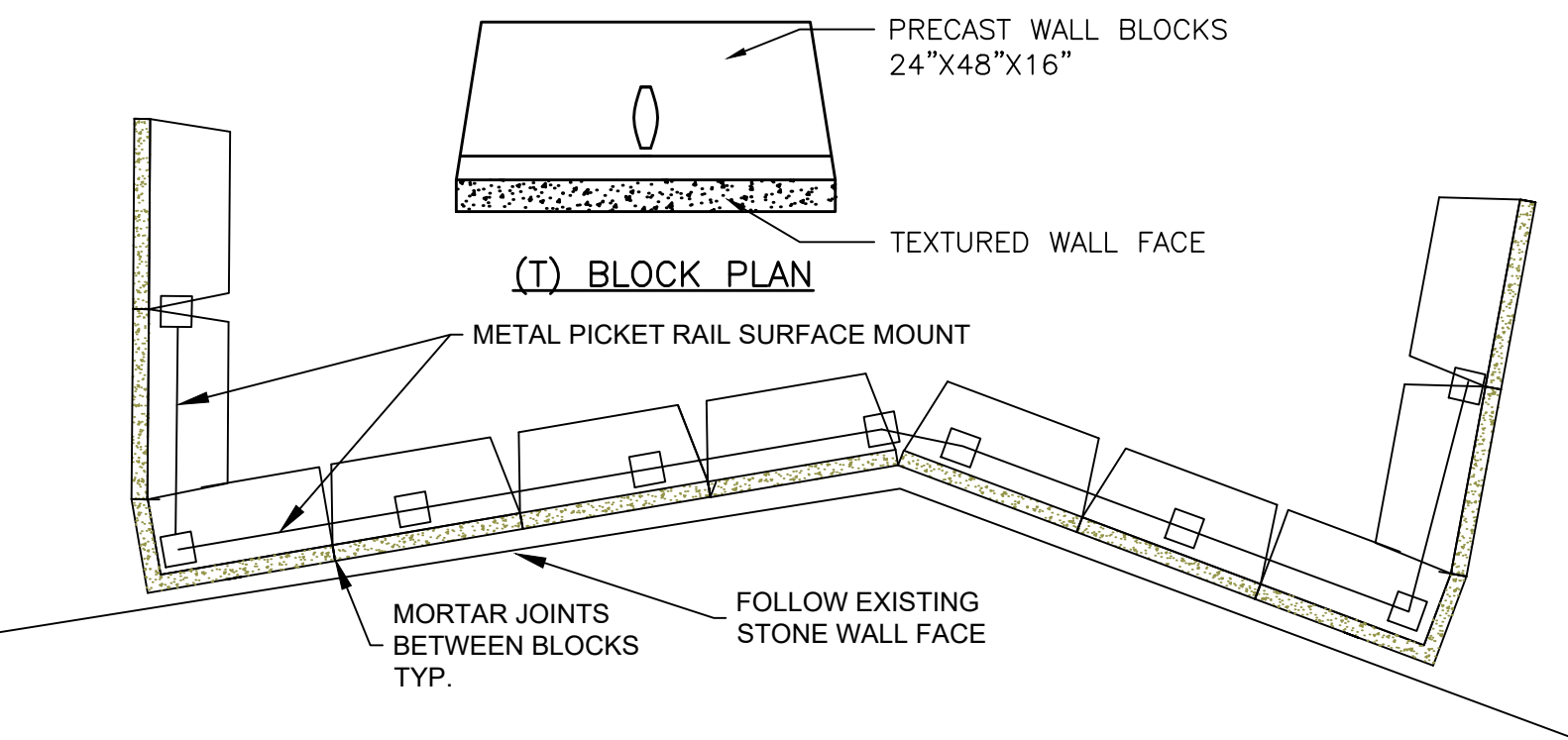


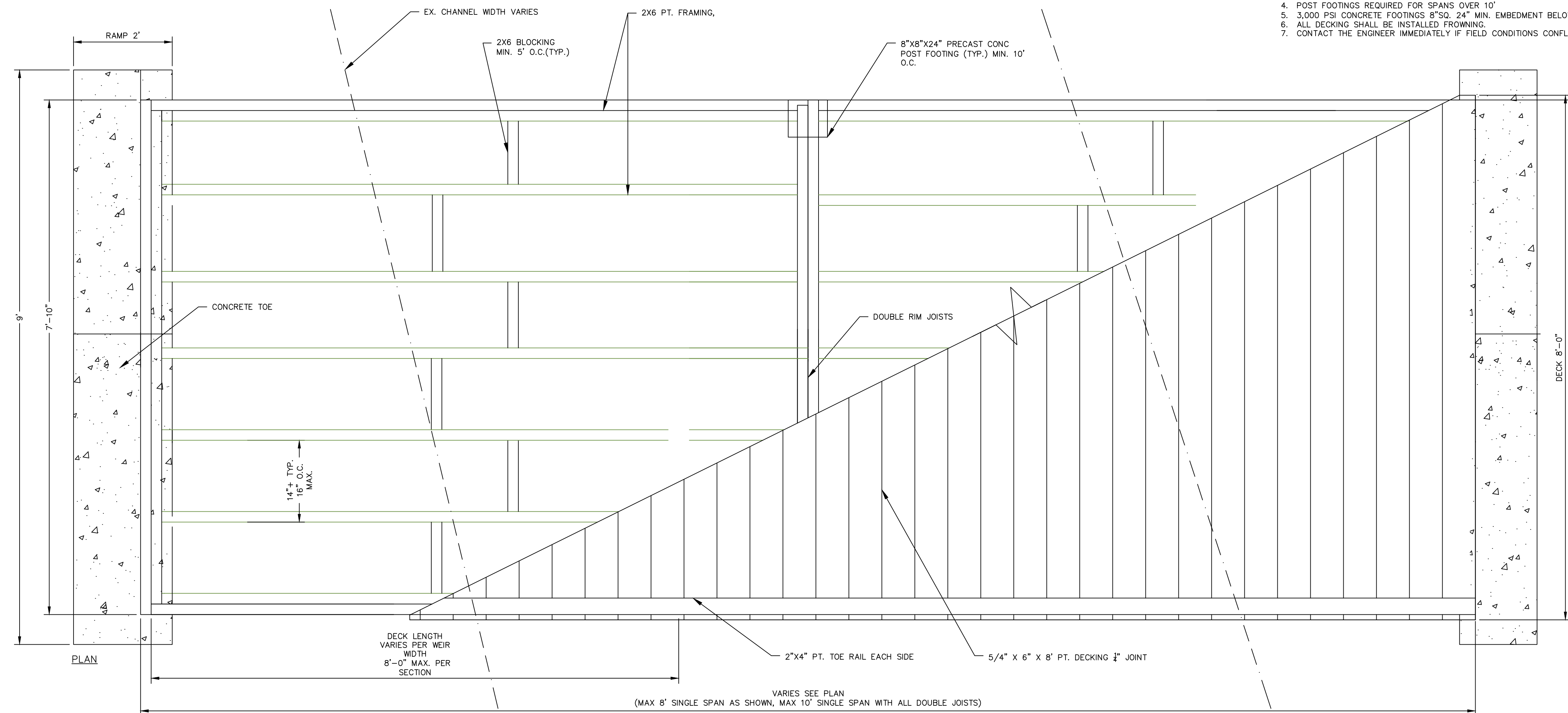
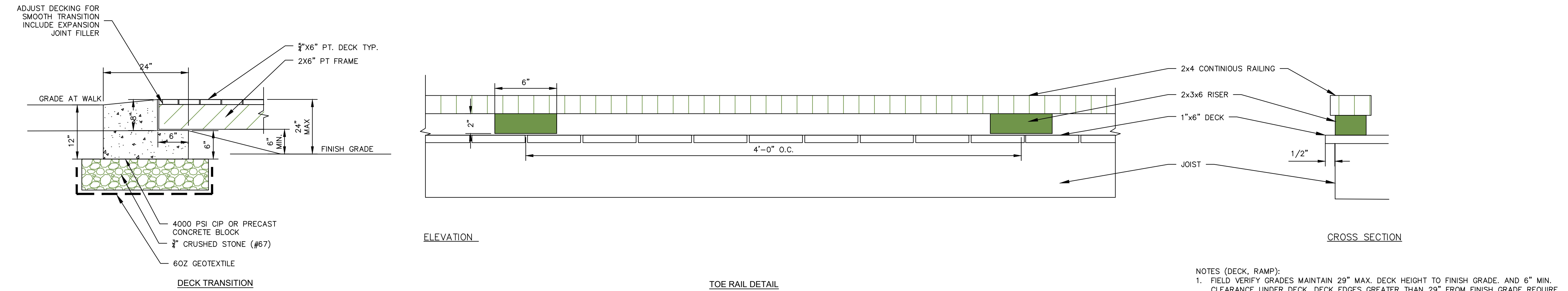
SEDIMENT CONTROL BARRIER - COIR FILTER TUBE DETAIL
SCALE: NONE



NOTE:
JUTE OR SIMILAR NATURAL BIODEGRADABLE EROSION CONTROL MAT. MATERIAL WEIGHT & STRENGTH SHALL BE AS SPECIFIED. PHOTO-DEGRADABLE PLASTIC MESH IS NOT ACCEPTABLE.

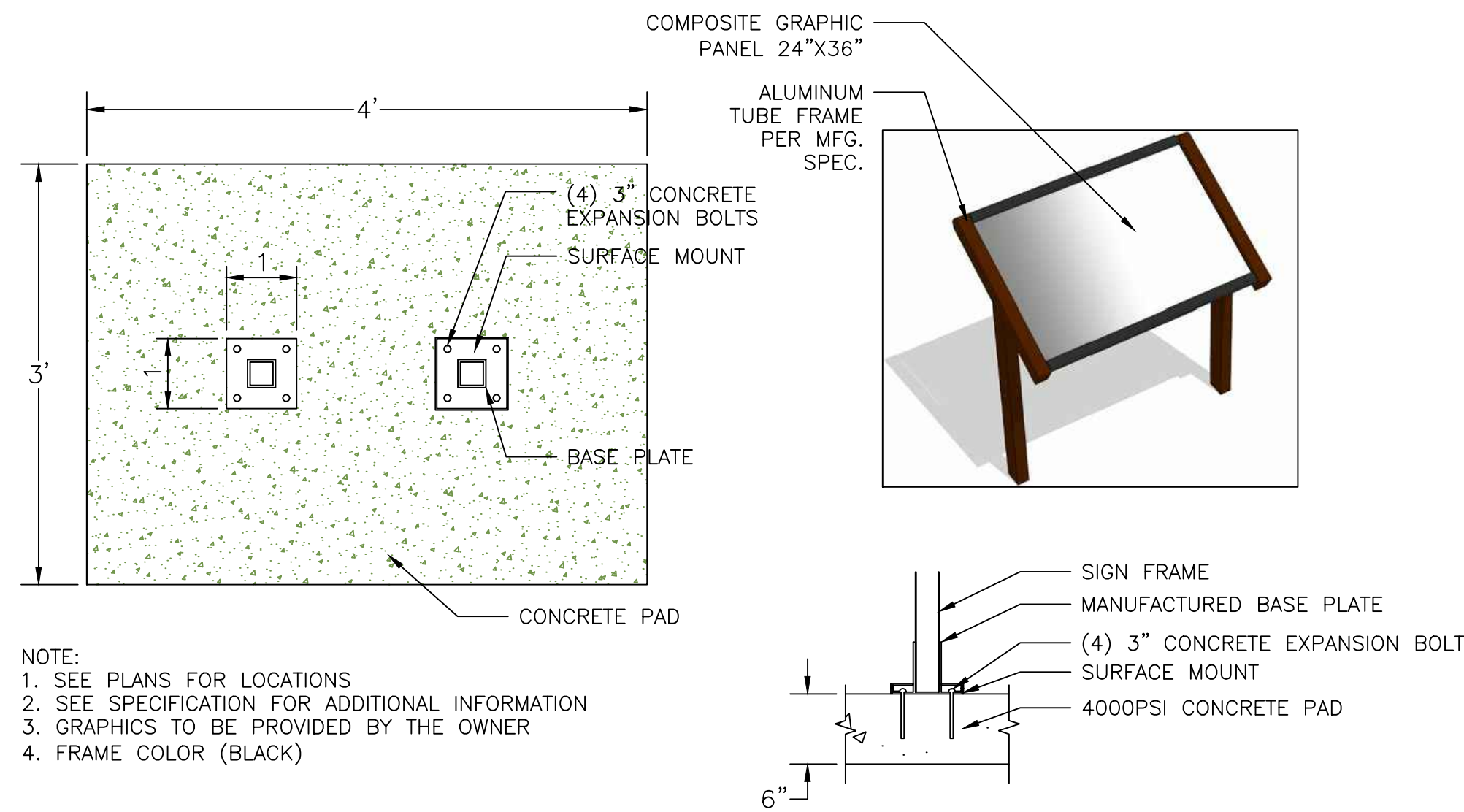
INSTALLATION OF MATTING FOR EROSION CONTROL
SCALE: NONE



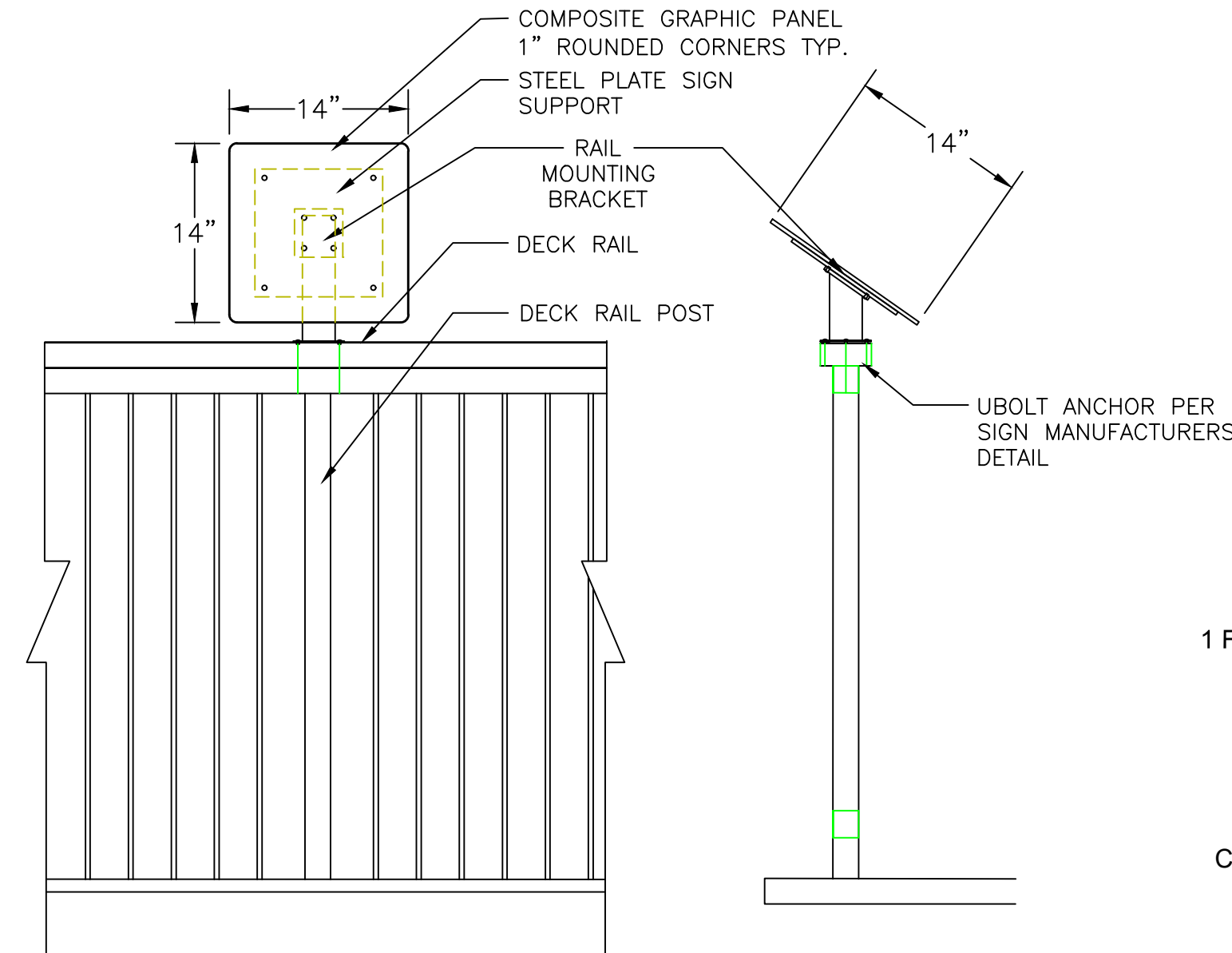


DECK FRAMING DETAIL

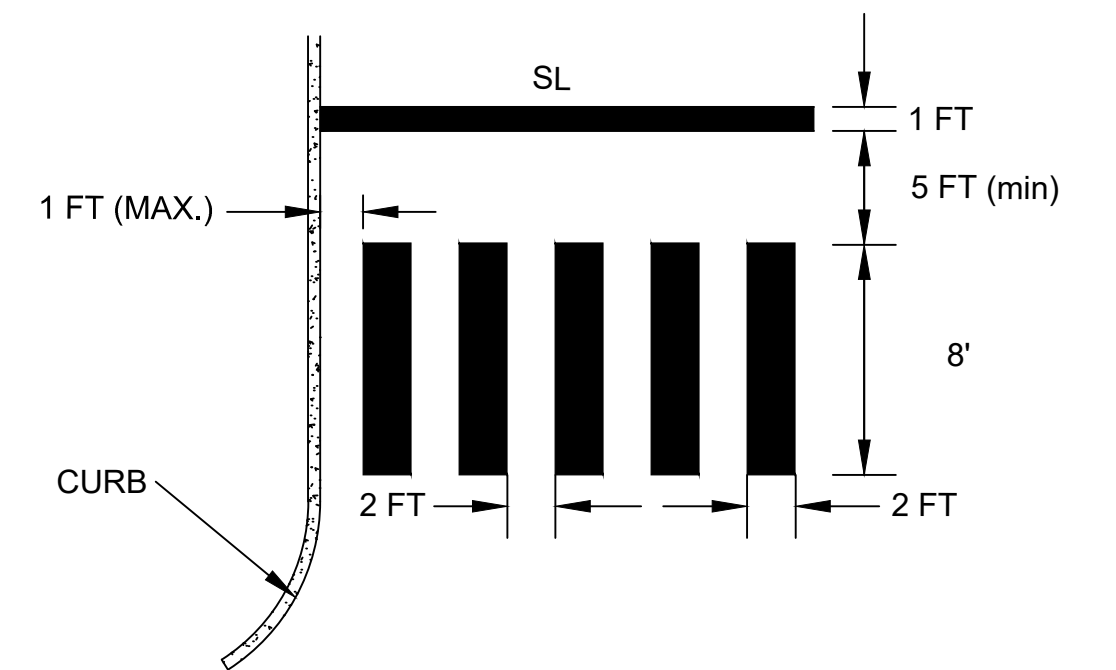
SCALE: NONE



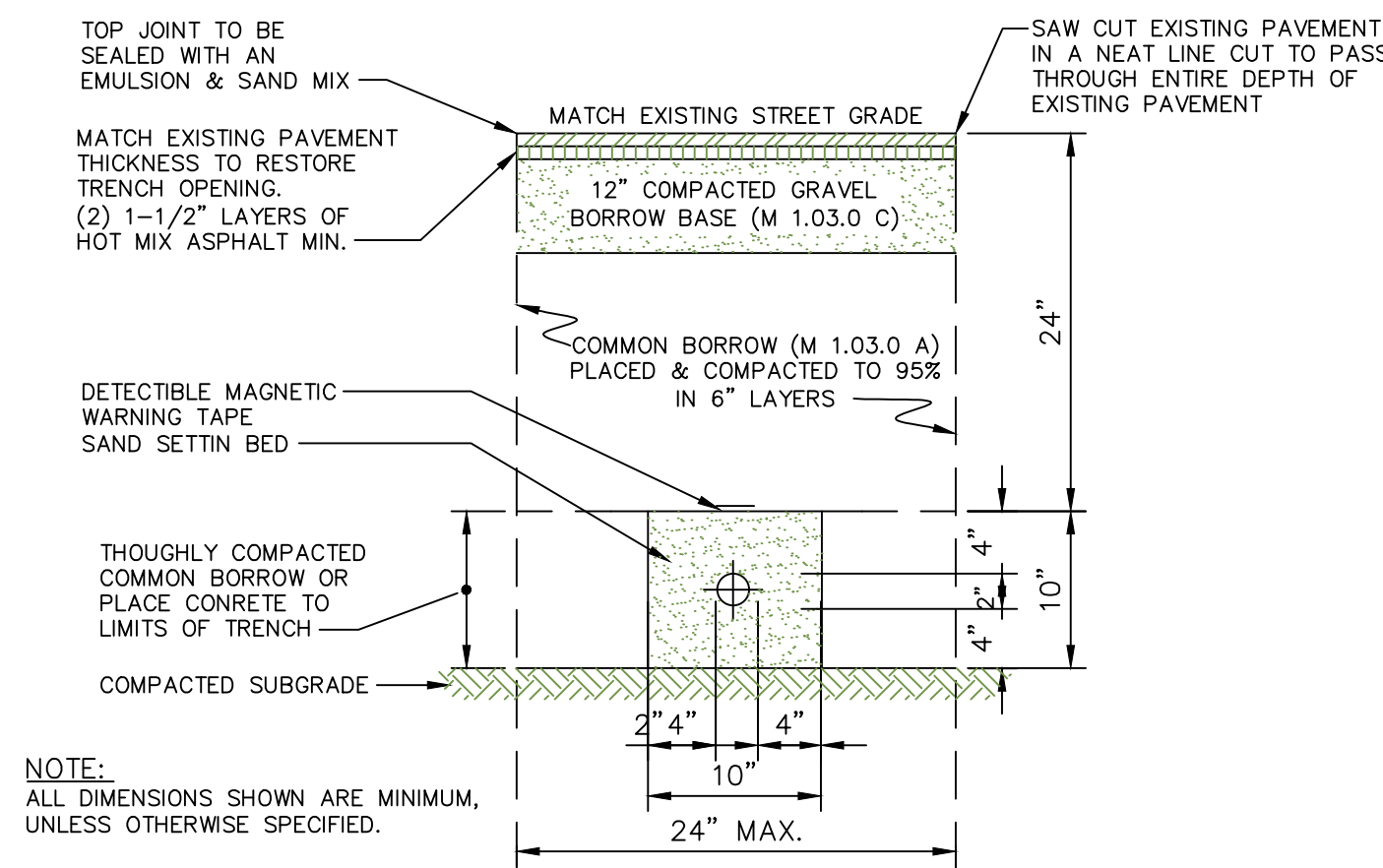
INTERPRETIVE SIGN 'A' (POST MOUNTED SIGN)
SCALE: NONE



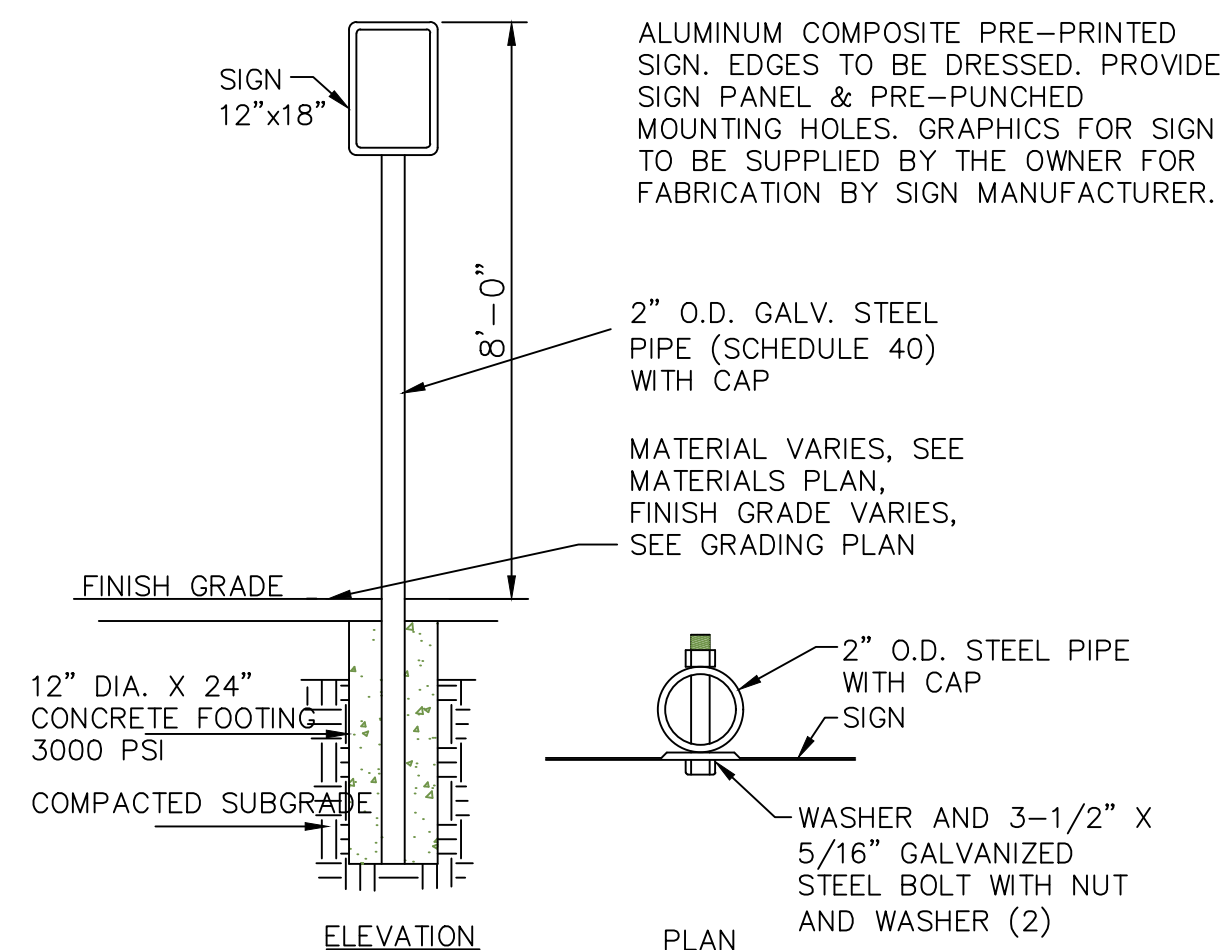
INTERPRETIVE SIGN 'B' - (RAIL MOUNTED SIGN)
SCALE: NONE



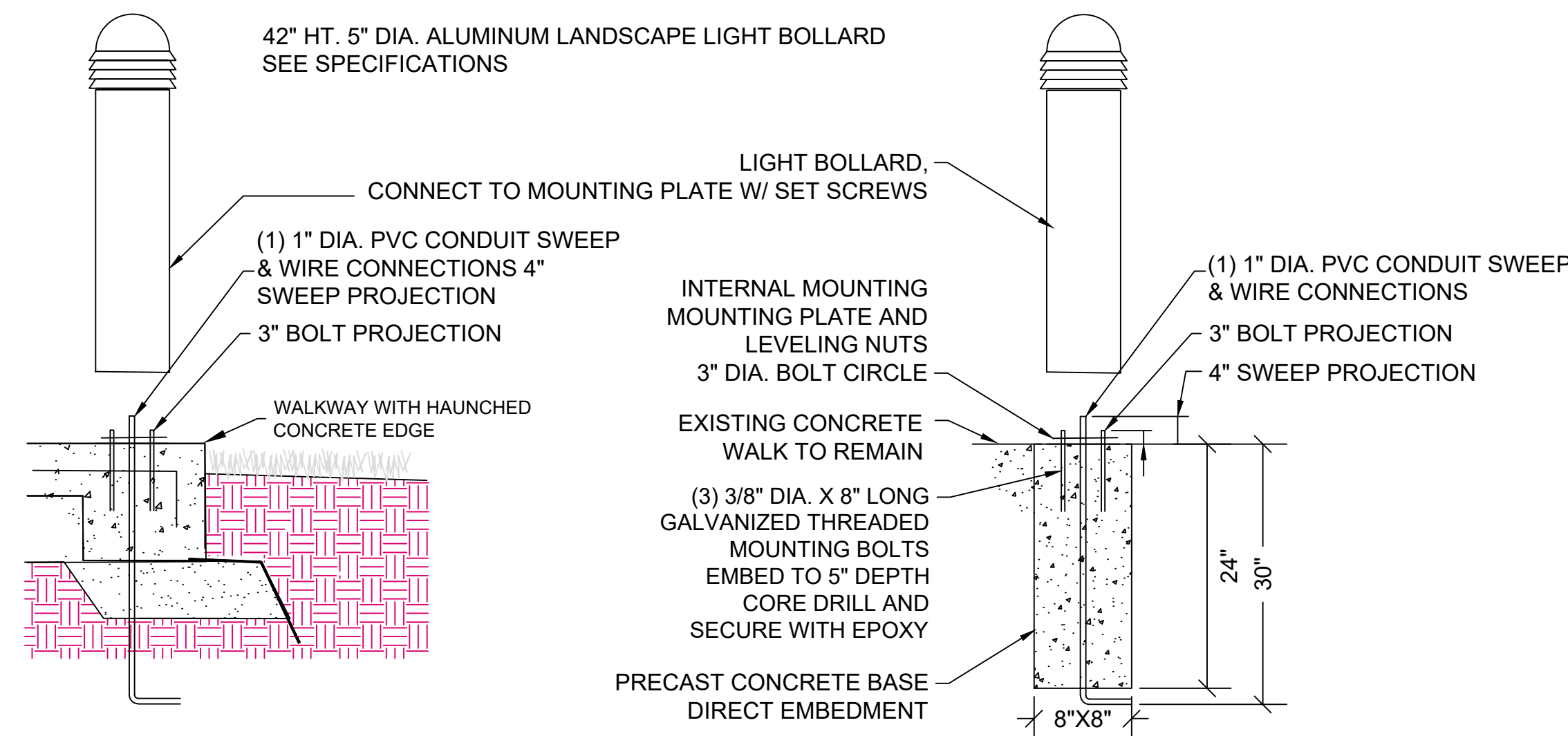
CROSSWALK DETAIL
NOT TO SCALE



ELECTRICAL CONDUIT
SCALE: NONE

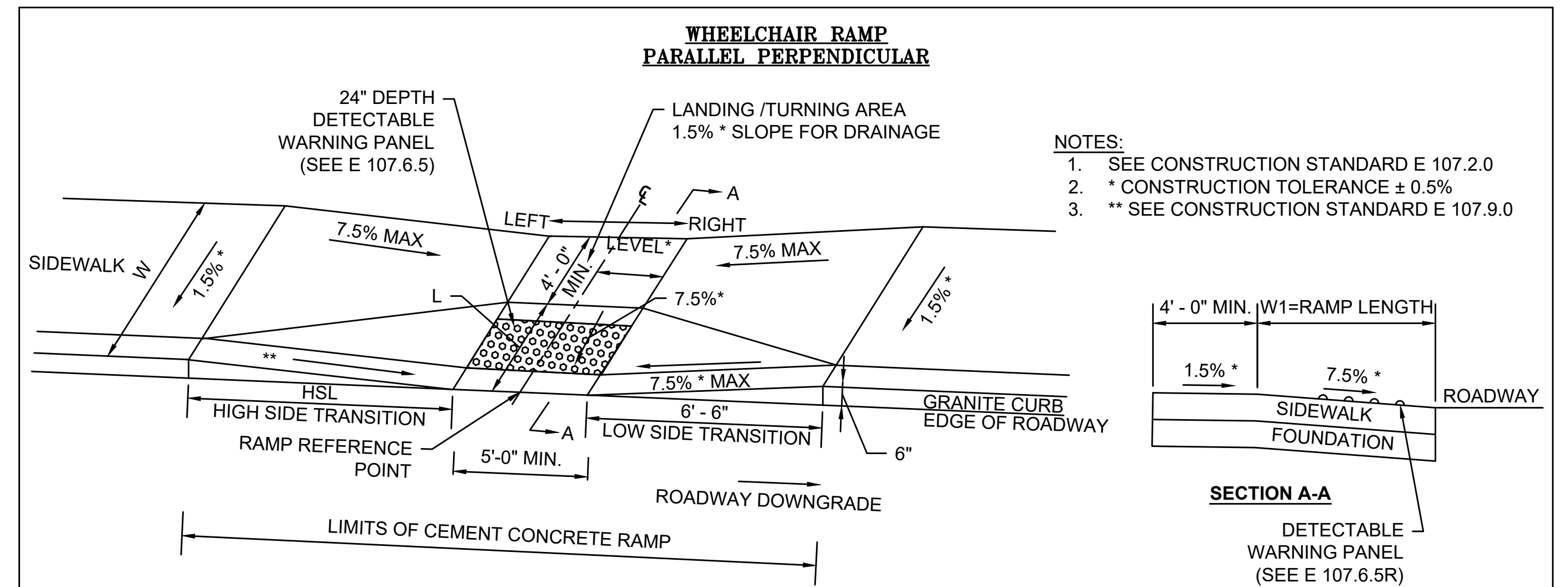


WAY FINDING SIGNAGE
SCALE: NONE



BOLLARD LIGHT-A
SCALE: NONE

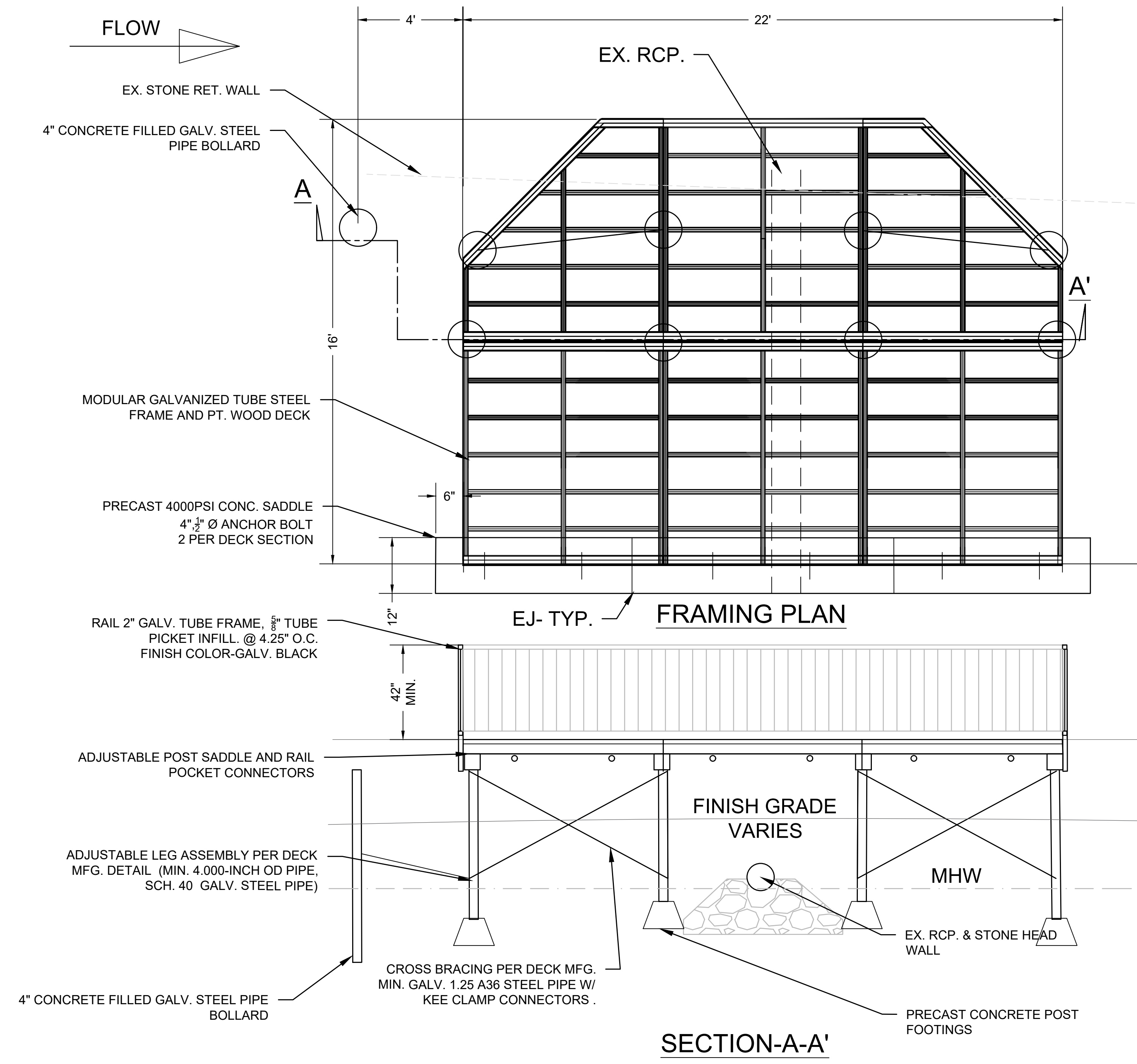
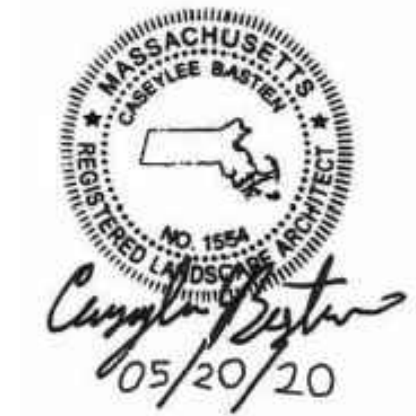
BOLLARD LIGHT-B
SCALE: NONE



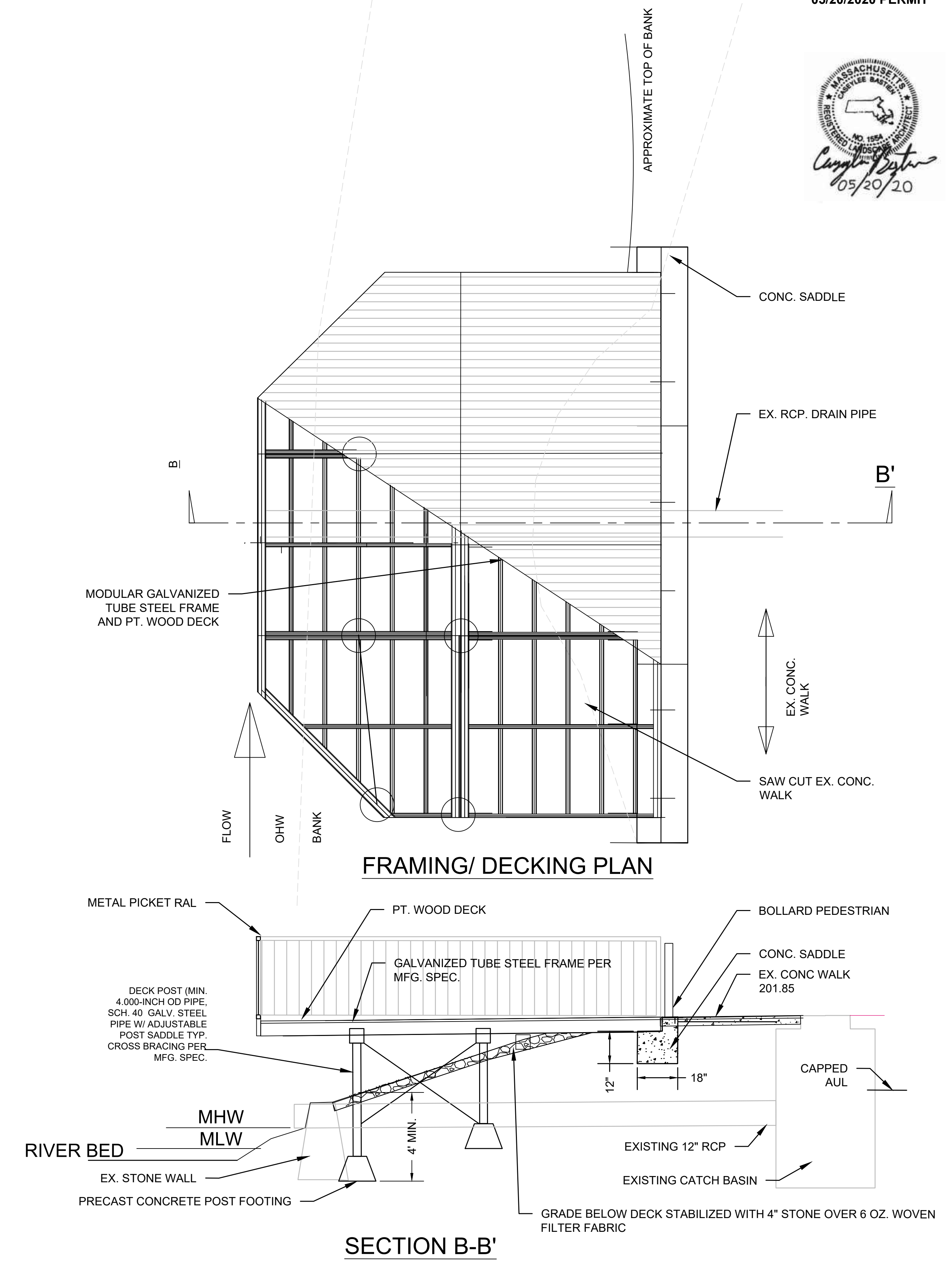
WCR #	RAMP REFERENCE POINT (STATION/OFFSET) Ref Street for Centerline	WIDTH OF SIDEWALK (W)	LENGTH OF RAMP (L)	WIDTH OF RAMP	DEPTH OF LEVEL LANDING Min. 4'-0"	TRANSITION LENGTH AND ROADWAY GUTTER SLOPE (%)					
						LEFT SIDE			RIGHT SIDE		
						L	%	NON-STD CURB REV	L	%	NON-STD CURB REV
#3	SOUTH ST. 18+04.45 / 12.00LT	7.50	2.50	5.00	4.00	6.50	-0.5%±		6.50	N/A	
#6	SOUTH ST. 18+64.64 14.15LT	VARIES	4.82	5.00	4.00	4.50	-0.2%±	0'-3"	6.50	N/A	
#7	SOUTH ST. TO MAIN ST. BL 50+30.38 / 15.54RT	VARIES	2.50	5.00	4.00	11.00	-2.8%±		3.25	N/A	0'-3"

- NOTES:
- ALL WHEELCHAIR RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB), THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE LATEST MASSDOT HIGHWAY DIVISION WHEELCHAIR RAMP STANDARDS.
 - THE LOCATIONS OF THE PROPOSED WHEELCHAIR RAMPS ARE SHOWN ON THE CONSTRUCTION ADDITIONAL TYPICAL DETAILS AND WHEELCHAIR RAMP DATA TABLES ARE SHOWN IN THE CONSTRUCTION DETAILS.
 - PROPOSED WHEELCHAIR RAMP SLOPES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE POURING OF CONCRETE, AND ADJUSTED, IF NECESSARY, TO CONFORM TO THE LATEST ADAAG/PROWAG/MAAB STANDARDS, AS REQUIRED BY THE ENGINEER.
 - ALL PROPOSED CURB FOR WHEELCHAIR RAMP TRANSITIONS SHALL BE CUT AND TRANSITIONED AS NECESSARY TO PROVIDE THE CORRECT TRANSITION LENGTHS FOR EACH WHEELCHAIR RAMP, AS SHOWN ON THE WHEELCHAIR RAMP DETAILS OR AS REQUIRED BY THE ENGINEER. ANY EXISTING CURB INLETS IN AREAS OF NEW WHEELCHAIR RAMP TRANSITIONS SHALL BE REMOVED AND REPLACED WITH APPROPRIATE TRANSITION CURB AS REQUIRED BY THE ENGINEER.
 - IN NO CASE, EXCEPT FOR MAXIMUM LENGTH HIGH SIDE TRANSITIONS (SLOPES GREATER THAN 4%) SHALL ANY TRANSITION SLOPE OF ANY

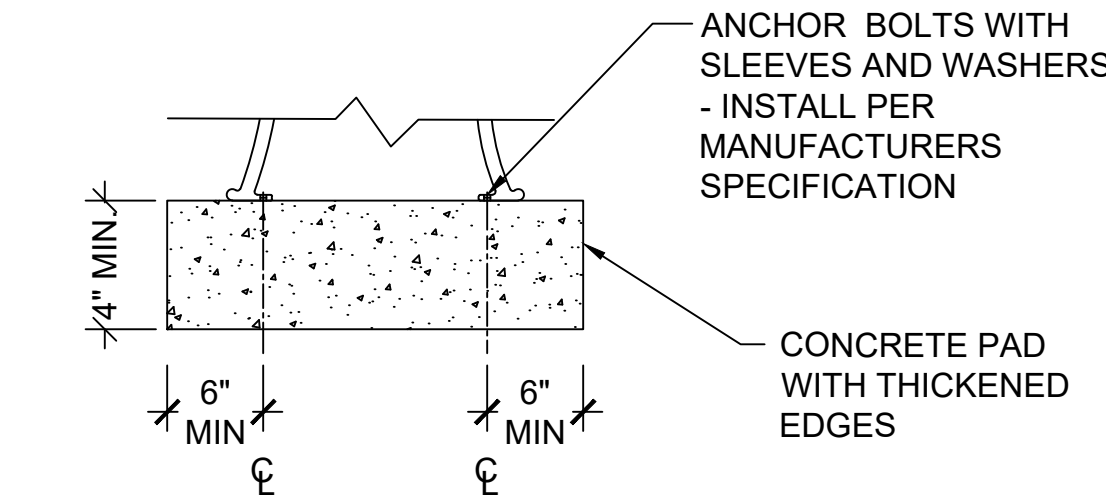
- WHEELCHAIR RAMP EXCEED 7.5%*
- WHEN PLACEMENT OF THE PROPOSED WHEELCHAIR RAMP IS SUCH THAT IT IS UNAVOIDABLE FOR EXISTING STRUCTURES, THAT CANNOT BE MOVED OR RESET, TO BE WITHIN THE WHEELCHAIR RAMP, EXTREME CARE SHALL BE TAKEN SUCH THAT THE EXISTING STRUCTURE IS WITHIN THE RAMP TRANSITIONS ONLY, IF POSSIBLE, WHEN THE NEW WHEELCHAIR RAMP IS PLACED AND THAT A FOUR FOOT WIDE (MIN). CLEAR PATH OF TRAVEL EXISTS BETWEEN THE EXISTING STRUCTURE AND EITHER THE CURBLINE OR THE BACK OF SIDEWALK, AS REQUIRED BY THE ENGINEER.
 - IN RARE INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER EXISTING "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED AND RESET, IS WITHIN THE ACTUAL WHEELCHAIR RAMP PATH, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OF THE STRUCTURE COVER SHALL BE FLUSH WITH THE NEW RAMP SURFACE AND SHALL MATCH THE SLOPE OF THE NEW WHEELCHAIR RAMP EXACTLY, AS REQUIRED BY THE ENGINEER.
 - ALL WHEELCHAIR RAMPS WITHIN THE PROJECT LIMITS SHALL HAVE DETECTABLE WARNING PANELS INSTALLED IN ACCORDANCE WITH MASSDOT STANDARD DRAWING E 107.6.5R.
 - *TOLERANCE FOR CONSTRUCTION +/- 0.5%



OVERLOOK DECK (MODULAR STEEL STRUCTURE)
SCALE: NONE



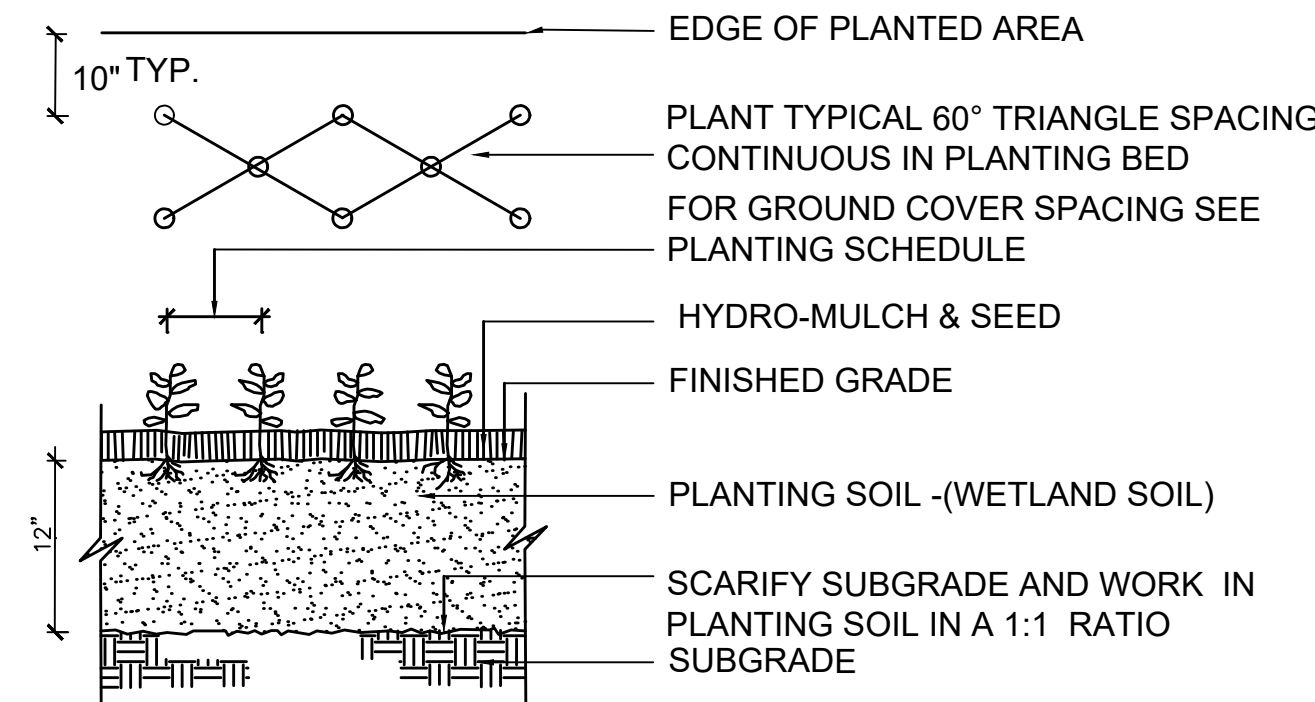
NOTE: SUPPLY OR FIELD MODIFY STANDARD PARK BENCHES WITH ONE ARM REST REMOVED FOR ADA ACCESS. IF FIELD MODIFIED GRIND SMOOTH AND PAINT PER MANUFACTURERS TOUCH UP PAINT.



CONCRETE PAD AND FURNISHINGS

SURFACE MOUNT FURNISHINGS (TABLE, BENCH)

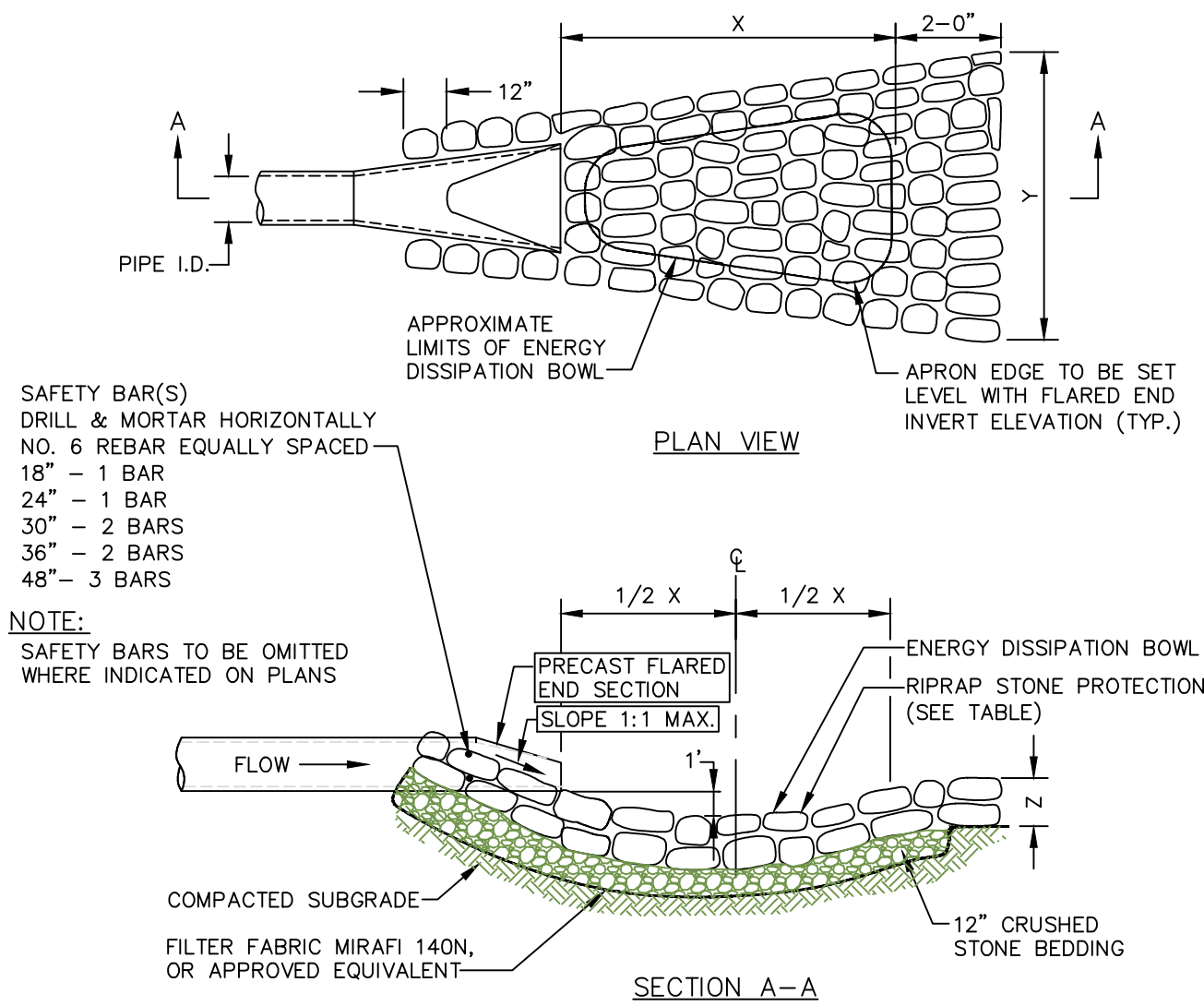
SCALE: NONE



NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

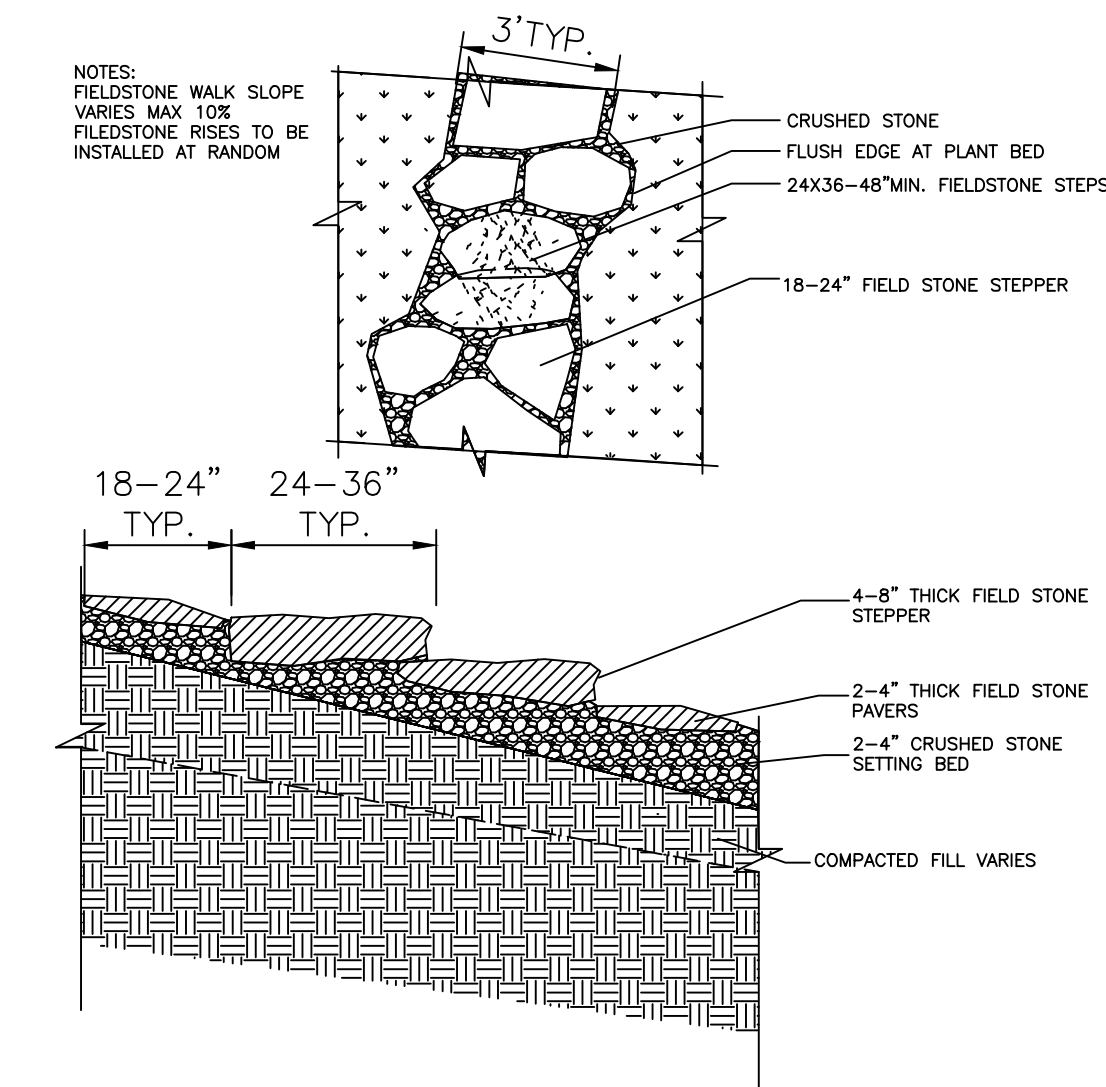
GROUNDCOVER PLANTING

SCALE: NONE



FLARED END SECTION W/ STONE PROTECTION (DISSIPATION BOWL)

SCALE: NONE



STEP STONES

SCALE: NONE