

EAST NATICK RIVERWALK

FATHER TIROCCHI FIELD

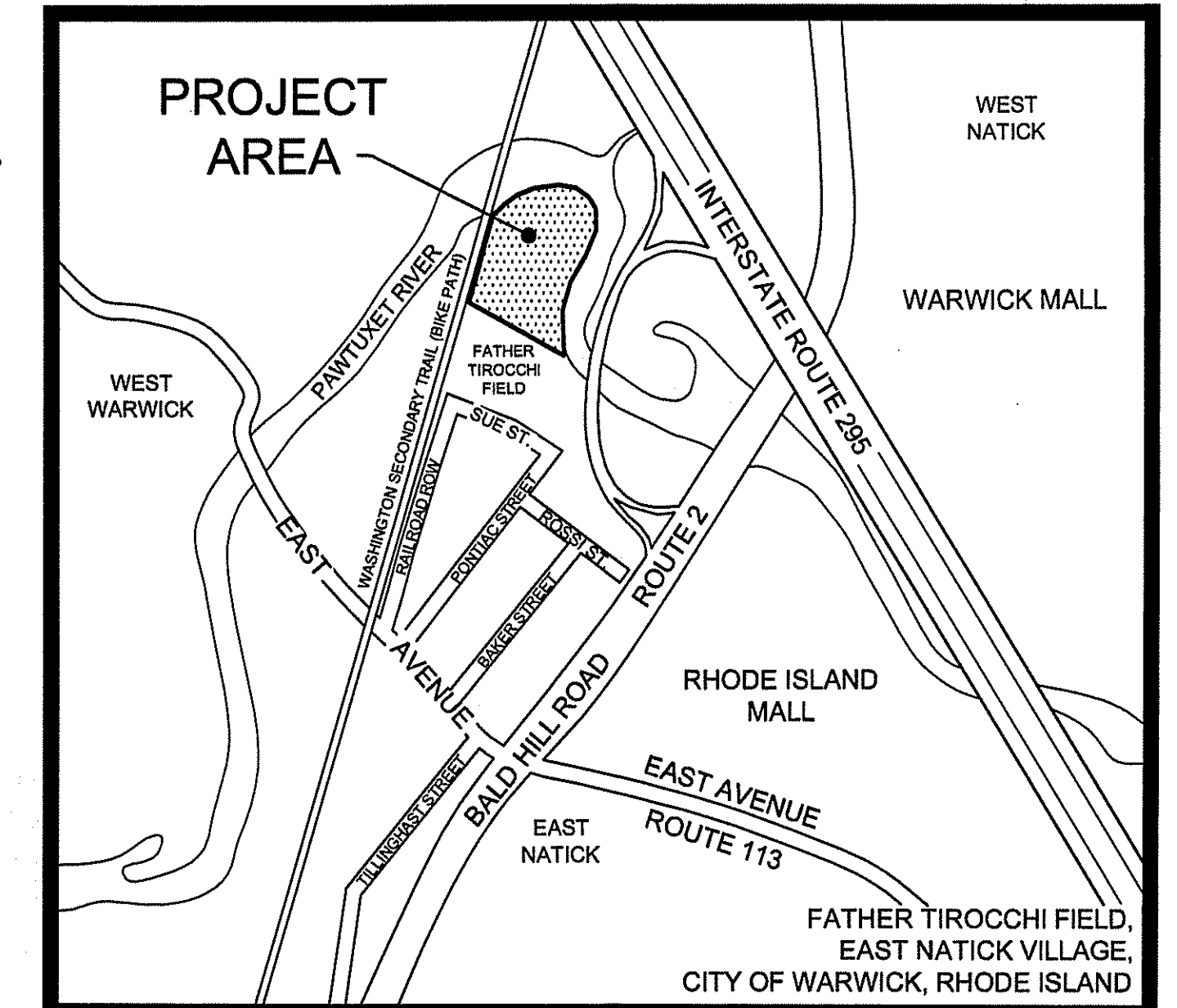
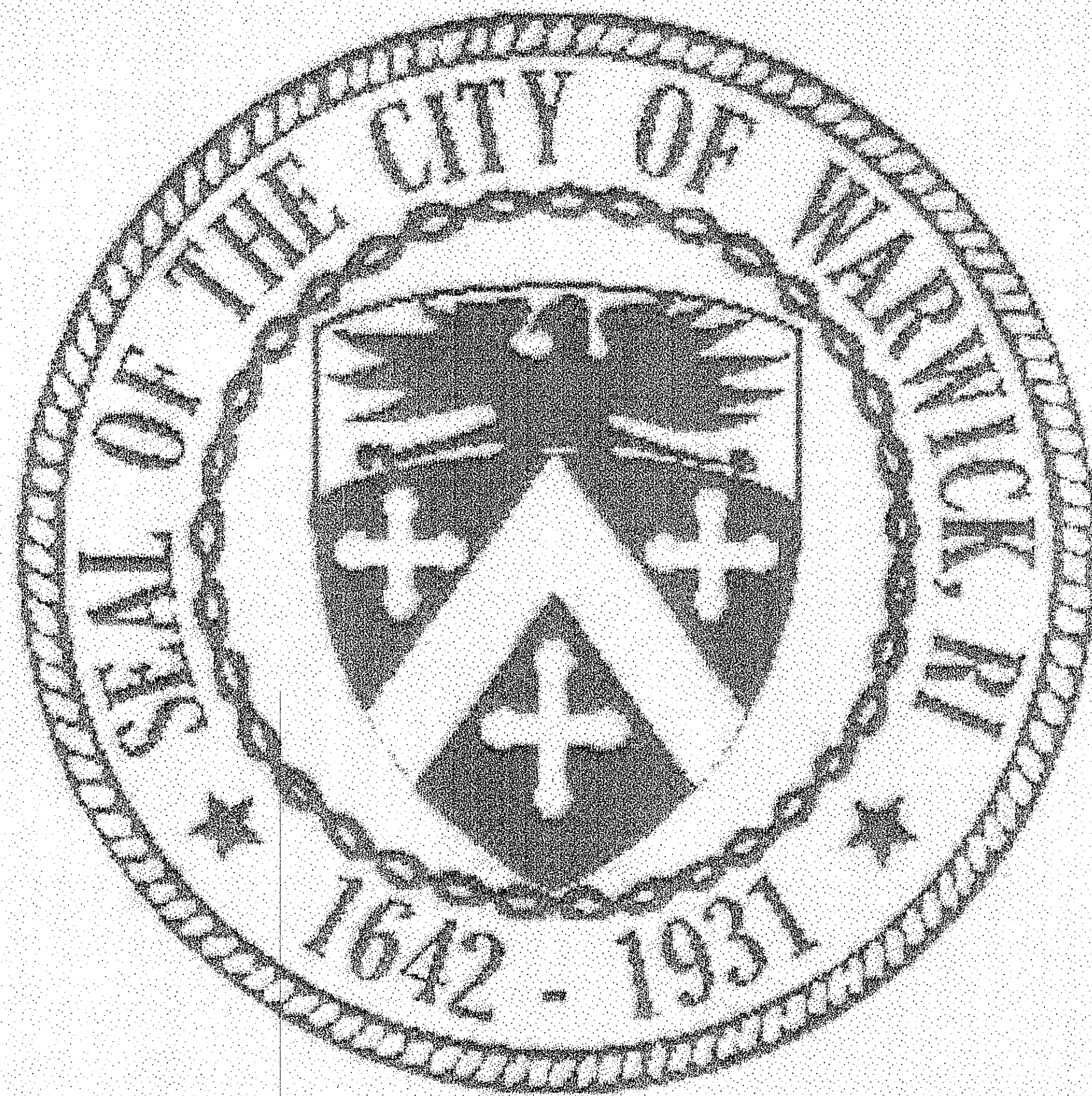
A.P. 263, LOT 22
WEST PONTIAC STREET,
WARWICK,
RHODE ISLAND

Prepared for:
THE CITY OF WARWICK, RHODE ISLAND
AND EAST NATICK VILLAGE ASSOCIATION

Administered by:
THE CITY OF WARWICK, RHODE ISLAND
SCOTT AVEDISIAN, MAYOR
OFFICE OF HOUSING AND COMMUNITY DEVELOPMENT
KEVIN SULLIVAN, PROGRAM COORDINATOR

Prepared By:
THE GIFFORD DESIGN GROUP, Inc.
LANDSCAPE ARCHITECTURE ENVIRONMENTAL PLANNING

In Association with:
CROSSMAN ENGINEERING
A DIVISION OF CROSSMAN CORPORATION



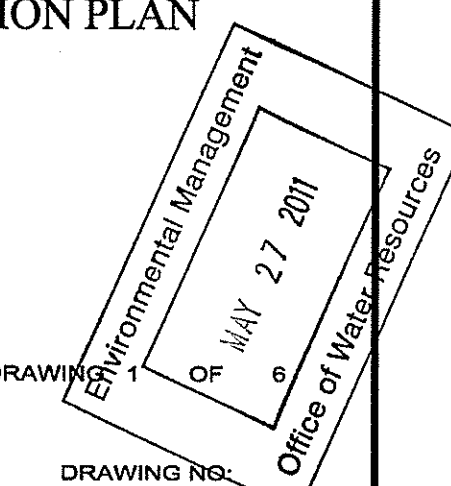
LOCUS MAP
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 15 2011 FILE # 11-2036
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Harber

TABLE OF CONTENTS:

SHEET 1 OF 6:	COVER SHEET
SHEET 2 OF 6:	EXISTING CONDITIONS & SITE PREPARATION PLAN
SHEET 3 OF 6:	OVERALL SITE LAYOUT AND KEY PLAN
SHEET 4 OF 6:	LAYOUT AND GRADING PLAN 1
SHEET 5 OF 6:	LAYOUT AND GRADING PLAN 2
SHEET 6 OF 6:	DETAILS

FEBRUARY 2011
REVISED MAY 17, 2011



274721 East Natick Title, R.I., 5/11, 11:00am/09:00am

CONSTRUCTION AREA LAYOUT NOTES:

- DURING CONSTRUCTION, MINOR GRADINGS (CUT CONDITION ONLY) AND SOIL MOVEMENT SHALL BE NECESSARY ONLY IN THE PROJECT AREA DEFINED BY THE SILT FENCE EROSION CHECK / LIMIT OF DISTURBANCE LINE. THIS IS NEEDED TO PROVIDE ADA COMPLIANT ACCESS TO THE SITE. NO OTHER GRADE CHANGES SHALL OCCUR WITHIN WETLAND AREA, ITS ASSOCIATED 150' PERMETER WETLAND, OR THE 200' RIVERBANK WETLAND OF THE PAWTUCKET RIVER.
- WORK AREA TO BE ESTABLISHED BY SILT FENCE/LIMIT OF DISTURBANCE LINE. THE LAYOUT OF THE PROJECT AREA ON THIS PLAN IS GENERALLY DEFINED BY FLAGGED PATH LOCATION (INDICATED AS 'CLP-XX') UNLESS OTHERWISE INDICATED ON PLANS. IT IS INTENDED TO BE A GUIDELINE. CARE SHALL BE GIVEN TO AVOID ANY SIGNIFICANT TREES ON SITE. FINAL ALIGNMENT SHALL BE DETERMINED ON SITE TO MINIMIZE CONFLICTS WITH EXISTING TREE LOCATIONS.
- EXISTING CONDITIONS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION (SEE REFERENCES). WETLAND FLAG, EDGES, AND TOPOGRAPHY ARE SURVEY LOCATED.

SELECTIVE PRUNING:

- TRIM OVERHANGING TREES WITHIN THE LIMIT OF WORK TO A MINIMUM HEIGHT OF 7' ABOVE FINISH GRADE OF WALKWAY (SEE SHEET 2 OF THIS PLAN SET).

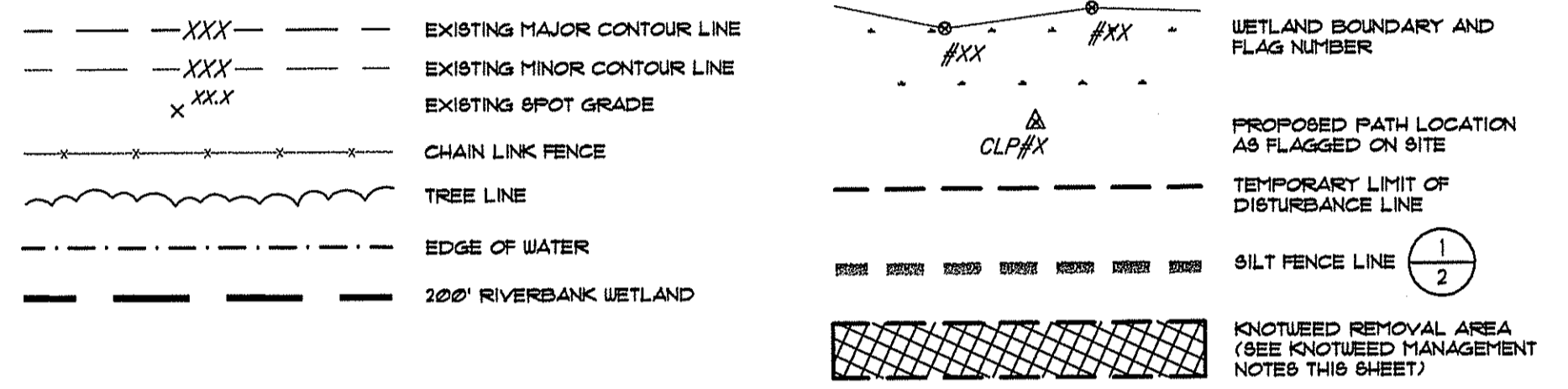
ENVIRONMENTAL PROTECTION:

- CONSTRUCTION ACCESS SHALL BE LIMITED TO THAT AREA DEFINED BY THE LIMIT OF WORK AREA. ALL CONSTRUCTION VEHICLES SHALL BE EQUIPPED WITH FLOTATION TIRES AND/OR TRACKS WHEN APPLICABLE TO MINIMIZE COMPACTION WITHIN THE LIMIT OF WORK.
- CONTRACTOR SHALL UTILIZE TEMPORARY WOOD PLANKS OR SIMILAR CONSTRUCTION MAT MATERIALS WITHIN THE PROJECT AREA, WHEN NECESSARY, TO MINIMIZE ANY DISTURBANCE.
- USE TREE PROTECTION AS PER DETAIL 3, AROUND ALL SINGLE TREES THAT ARE LOCATED WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT AREA.
- THIS PROPOSAL REQUIRES NO FILL WITHIN THE FLOOD ZONE (SEE REFERENCE 2, THIS SHEET).

SURVEY AND WETLAND FLAGGING NOTES:

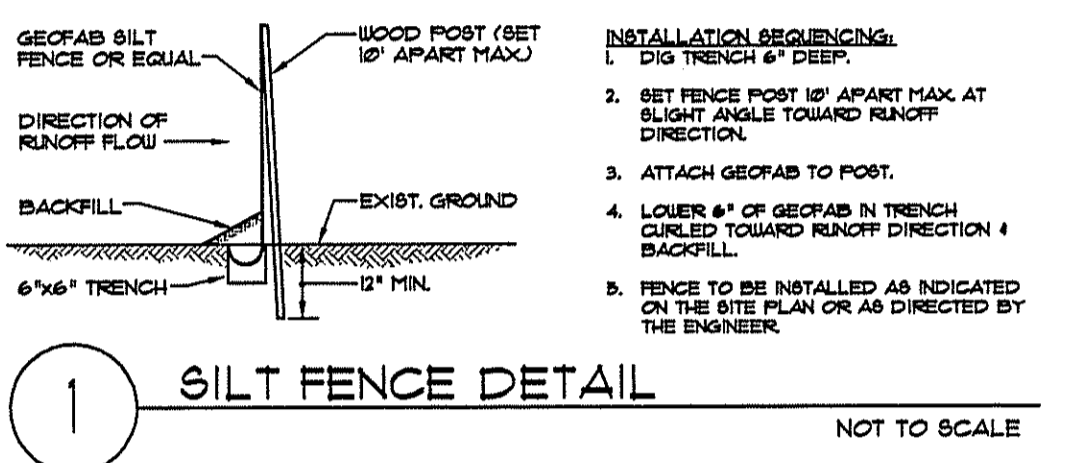
- ON-SITE FIELD SURVEY WORK, PERFORMED BY CROSSMAN ENGINEERS IN OCTOBER AND DECEMBER OF 2010, AND CONFORMS TO A CLASS III STANDARD AS ADOPTED BY THE RI BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS WITH THE EXCEPTION OF COMPILED ITEMS (CLASS IV STANDARD) NOTED AS 'APPROXIMATE'.
- TOPOGRAPHIC SURVEY, CONFORMS TO A CLASS III STANDARD AS ADOPTED BY THE RI BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. SEE REFERENCE 1.
- WETLANDS AND BUFFER LINES DELINEATED BY GIFFORD DESIGN GROUP IN OCTOBER OF 2010. FLAGG LOCATED BY CROSSMAN ENGINEERING IN OCTOBER OF 2010.
- BENCHMARK AND NAVD 28 VERTICAL DATUM ESTABLISHED FROM A STANDARD RIGID DISK DESIGNATED "N-30" USING RTK GPS TECHNIQUES.
- UTILITY NOTE: THE UTILITIES SHOWN HEREON ARE PLOTTED FROM FIELD LOCATION OF VISIBLE ABOVE GROUND STRUCTURES ONLY. THE CONTRACTOR OR USERS OF THIS PLAN SHOULD CONTACT DIGSAFE PRIOR TO ANY WORK. CROSSMAN ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
- PROJECT SITE IS WITHIN AN AREA OF FLOOD ZONE 'AE', 100 YEAR FLOOD, BASE FLOOD ELEVATION DETERMINED. 100 YR. FLOOD PLAN ELEVATION IS 30.

LEGEND



SEDIMENTATION CONTROL and SOIL STABILIZATION PROGRAM

- DISBURSED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME.
- A SILTATION BARRIER (SILT FENCE) IS TO BE INSTALLED AND MAINTAINED AS PER DETAIL 1 AT THE LIMITS TO DISTURBED AREAS OF THE PROJECT SITE. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY INADVERTENT MATERIAL FROM ENTERING THE REGULATED AREAS AND BEYOND THE LIMIT OF WORK AREA.
- BANKS OR SLOPES OVER 5% SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A MAT, STRAW OR FIBER MULCH.
- DURING CONSTRUCTION THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHALL BE TAKEN SO AS NOT TO PLACE 'REMOVED SEDIMENTS' WITHIN REGULATED AREAS, AND OUTSIDE OF THE LIMIT OF DISTURBANCE.
- ADDITIONAL SILT FENCE, HAYBALES OR OTHER SEDIMENT CONTROL MEASURES SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL EXPENSE TO OWNER.
- REFERENCE THE 'RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK' PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, AS AMENDED, AND THE STATE OF RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, AS A GUIDE.
- ALL SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUNDCOVER IS ESTABLISHED, AND SOILS ARE STABILIZED PROPERLY. PROMPTLY REMOVE ALL SEDIMENTATION CONTROLS FOLLOWING STABILIZATION OF DISTURBED SOILS.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
- STACKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR FLOODPLAINS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY (30) PERCENT.

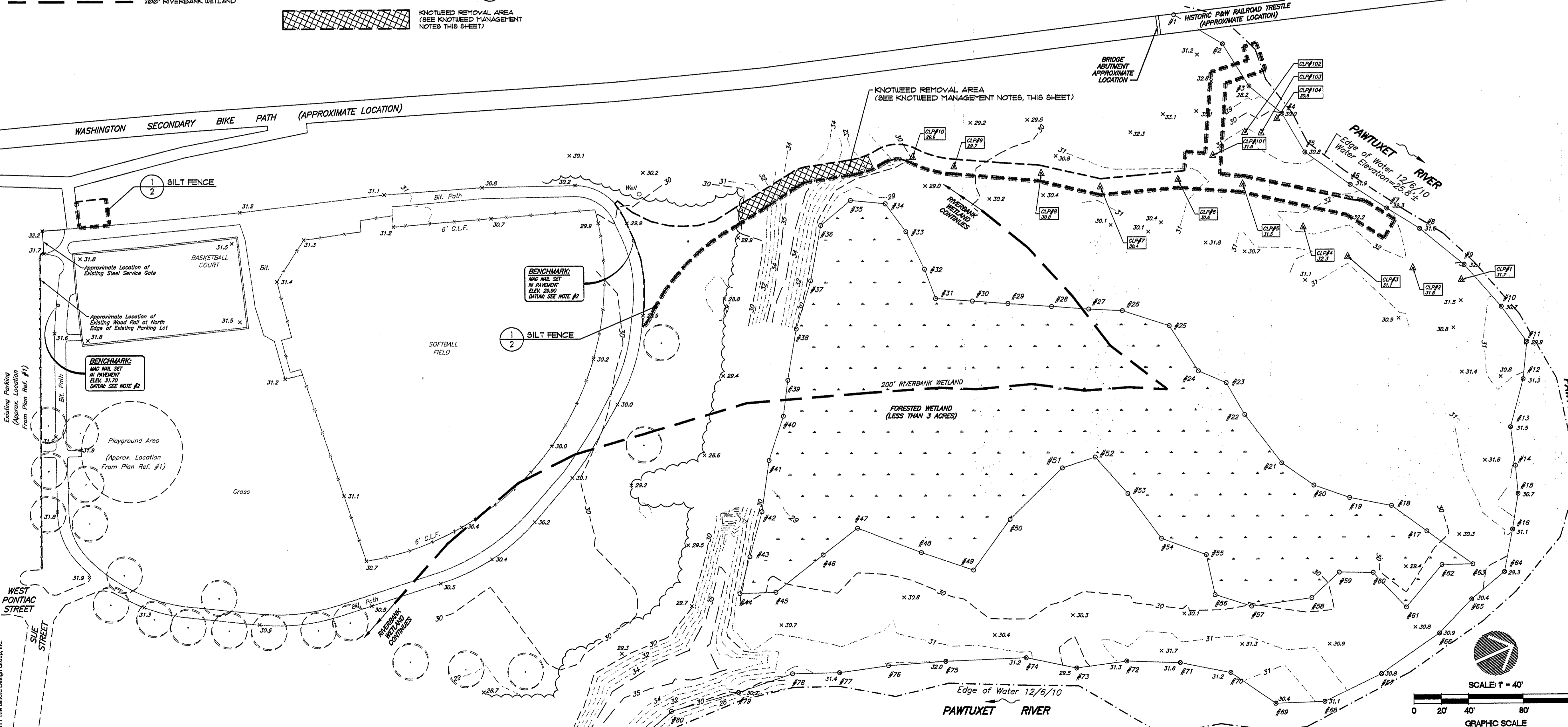
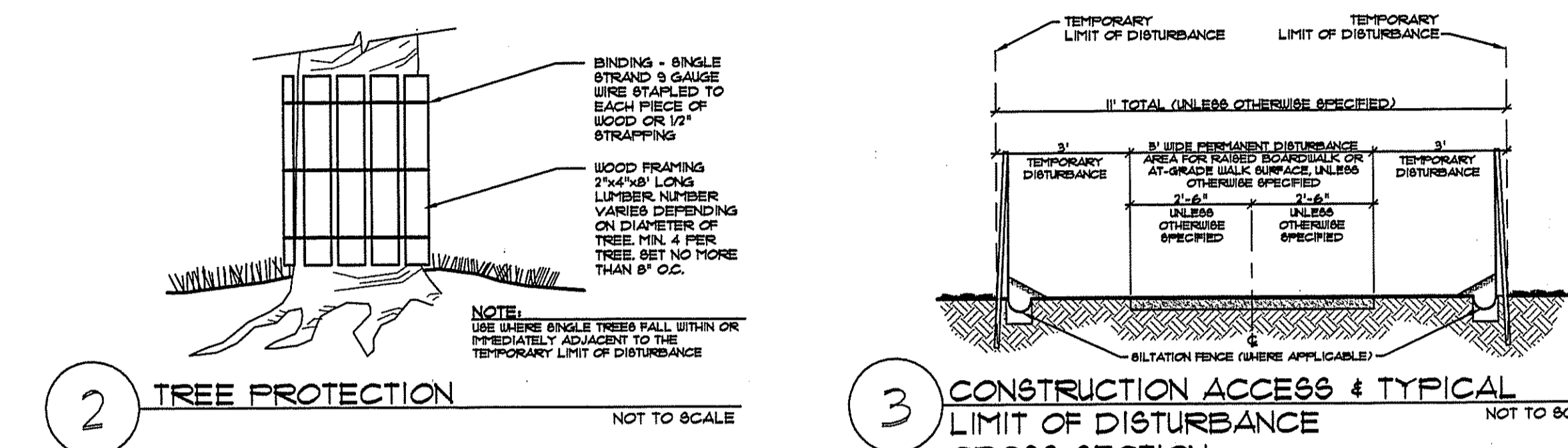


GENERAL NOTES:

- UTILITIES PLOTTED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH THE 1910 SAFE PROGRAM LUMP SUM CONTRACT BY THE STATE OF RHODE ISLAND AND INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATES, ORDINANCES, RULES AND REGULATIONS OF ANY CITY, STATE OR FEDERAL AGENCY THAT MAY BE APPLICABLE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR TO CHECK ALL CONDITIONS, DIMENSIONS AND OTHER INFORMATION SHOWN ON THIS PLAN AGAINST ACTUAL FIELD CONDITIONS.
- EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE ANY PORTIONS OF THE EXISTING SITE IMPROVEMENTS NOT INDICATED TO BE REMOVED ON THE PLANS, INCLUDING BUT NOT LIMITED TO CURBS AND PLANT MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPAIR FOR ANY SUCH DAMAGE.
- PRIOR TO THE START OF SITE CONSTRUCTION, CONTRACTOR IS REQUIRED TO DEVELOP AND IMPLEMENT A PLAN FOR TEMPORARY CONTROL OF VEHICULAR AND PEDESTRIAN TRAFFIC FOR WORK WITHIN PUBLIC STREETS OR RIGHTS-OF-WAY AND FOR SAFE CONSTRUCTION SITE ACCESS AND EGRESS. CONTRACTOR TO OBTAIN APPROVAL OF SAID PLAN FROM APPROPRIATE STATE AND COMMUNITY PUBLIC SAFETY OFFICIALS.
- CONTRACTOR TO DISPOSE OF ALL MATERIAL SPECIFIED FOR REMOVAL AND DISPOSAL IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
- NO STOCKPILES SHALL OCCUR WITHIN ANY REGULATED WETLANDS. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE FOR LOCATION OF STOCKPILES OPERATIONS.

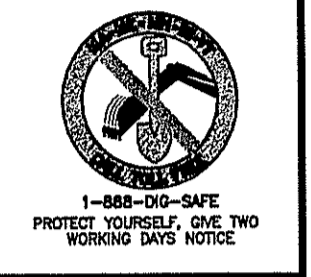
KNOTWEED MANAGEMENT NOTES:

- ESTABLISH LIMITS OF DISTURBANCE BY INSTALLATION OF SILT FENCE AS INDICATED ON DRAWINGS.
- IF NECESSARY, CUT KNOTWEED TO A HEIGHT OF APPROXIMATELY 4\"/>



No:	Revision:	Date:
1	Per RIDEM Comments	5-17-11

- REFERENCES:**
- PLAN ENTITLED: 'EAST NATICK VILLAGE TRAIL IMPROVEMENTS - EXISTING CONDITIONS PLAN', PREPARED BY: THE GIFFORD DESIGN GROUP, Inc., PREPARED BY: CROSSMAN ENGINEERING, Inc., SHEET NO. C-1 OF 1, SCALE: 1" = 50', DATED: DECEMBER 7, 2010.
 - FIRM (FLOOD INSURANCE RATE MAP) PREPARED BY: FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP 445409 0002 D REVISED APRIL 16, 1991.
 - APPROXIMATE LOCATION OF BIKE PATH OBTAINED THROUGH COPYRIGHT 2010 GOOGLE.

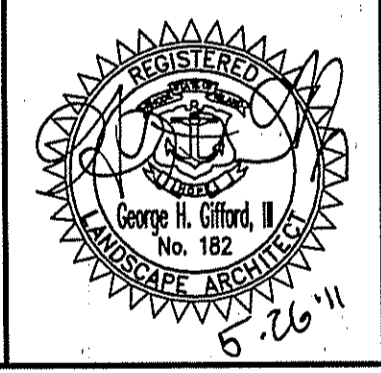


EAST NATICK RIVERWALK
FATHER TIROCCHI FIELD

A.P. 263, LOT 22
WARWICK, RI

PREPARED FOR:
THE CITY OF WARWICK, RI
AND EAST NATICK VILLAGE ASSOCIATION

THE GIFFORD DESIGN GROUP, Inc.
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL PLANNING
4056 MENDON ROAD, CUMBERLAND, RHODE ISLAND 02864
PHONE (401) 671-6886 FAX (401) 671-6466

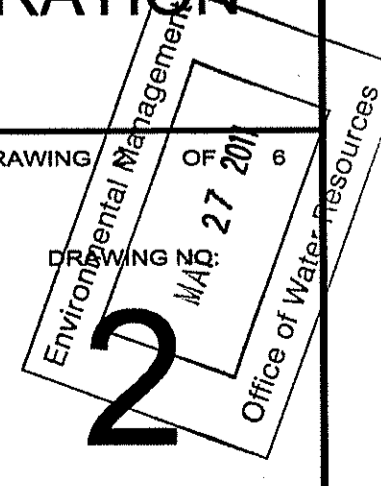


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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Charles A. Horvath

EXISTING CONDITIONS and SITE PREPARATION PLAN

PROJECT NO. 274.721	DRAWING NO. 27	OF 6
DATE: FEBRUARY 2011	Scale: AS SHOWN	
DRAWN BY: KMA, WS	CHECKED BY: GHG	



TRAIL LAYOUT NOTES:

HORIZONTAL ALIGNMENT:

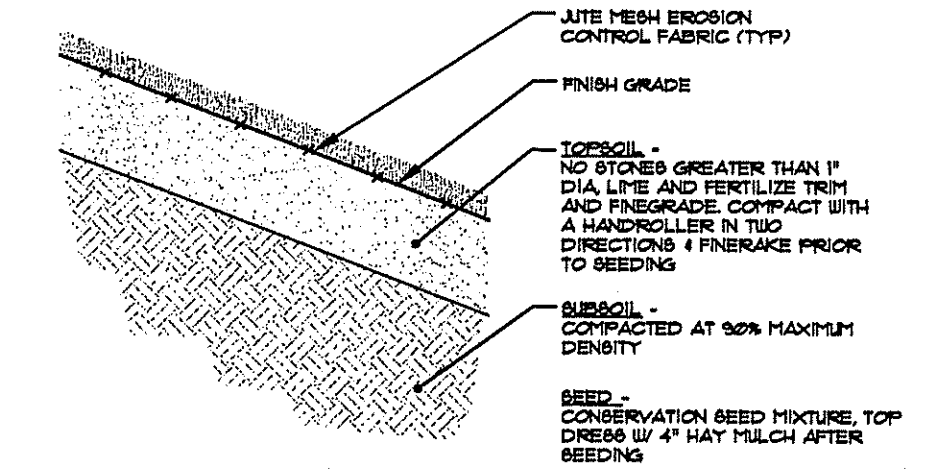
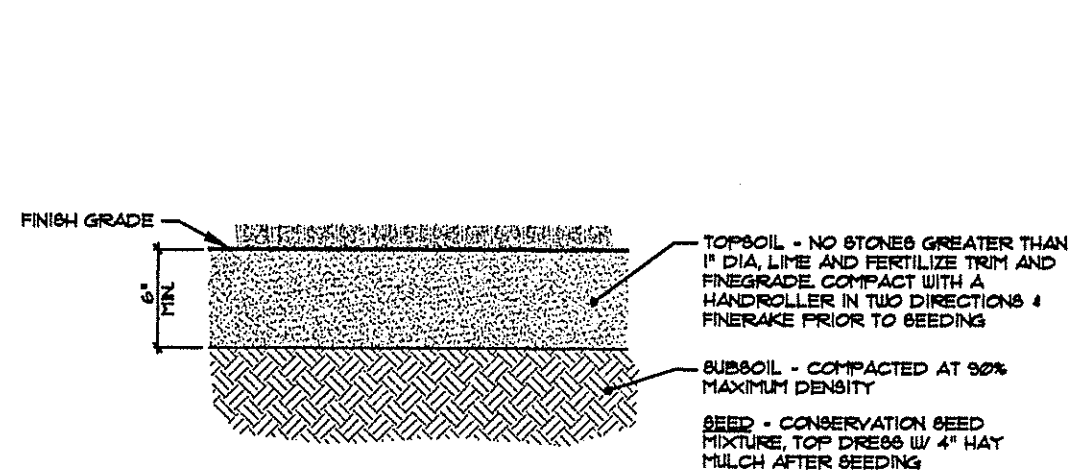
- OVERALL HORIZONTAL ALIGNMENT OF WALKWAY AND SITE FURNISHINGS INDICATED ON THIS PLAN IS INTENDED TO BE AN ACCURATE GUIDELINE. PORTIONS OF WALKWAY WITHIN WOODED AREAS OF SITE SHALL GENERALLY FOLLOW FLAGGED LOCATION (INDICATED AS CLP-1 THROUGH CLP-10) THROUGH CLP-101 THROUGH CLP-104) UNLESS OTHERWISE SPECIFIED. FINAL PRECISE ALIGNMENT SHALL BE DETERMINED ON SITE TO MINIMIZE CONFLICTS WITH EXISTING TREE LOCATIONS. CONTRACTOR SHALL STAKE HORIZONTAL ALIGNMENT OF WALKWAYS AND RAISED BOARDWALK IN FIELD FOR REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE.
- AT-GRADE WALKWAYS: HORIZONTAL ALIGNMENT SHALL GENERALLY FOLLOW PATH LOCATION INDICATED ON PLANS. AT CORNER POINTS AND/OR CHANGES IN HORIZONTAL ALIGNMENT OF AT-GRADE WALKWAY, CONTRACTOR SHALL INSTALL WALKWAY TO FOLLOW A RADIAL ALIGNMENT TO PROVIDE SMOOTH FLOW OF PEDESTRIAN TRAFFIC ALONG CENTERLINE OF PATH.
- RAISED BOARDWALKS: HORIZONTAL ALIGNMENT SHALL GENERALLY FOLLOW FLAGGED PATH LOCATION UNLESS OTHERWISE INDICATED ON PLANS. AT CORNER POINTS AND/OR CHANGES IN HORIZONTAL ALIGNMENT OF RAISED BOARDWALKS, CONTRACTOR SHALL PROVIDE SHARP ANGULAR CONNECTIONS IN ACCORDANCE WITH (C).

VERTICAL ALIGNMENT:

- PROPOSED GRADING INDICATED IS FOR GUIDANCE PURPOSES ONLY.
- UNLESS OTHERWISE SPECIFIED, ALL WALKWAYS TO BE AT A SLOPE LESS THAN OR EQUAL TO 5%. FINISH GRADE OF ALL AT-GRADE WALK SURFACES SHALL HAVE A 2% CROSS SLOPE FOR PROPER DRAINAGE (SEE (C)).
- DECK SURFACES OF ALL RAISED BOARDWALK WALKWAYS TO BE LESS THAN 30" FROM FINISH GRADE OF UNDERLYING FOREST FLOOR. CONTRACTOR SHALL STAKE VERTICAL AND HORIZONTAL ALIGNMENT OF BOARDWALK IN FIELD FOR REVIEW BY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

LEGEND

---XXX---	EXISTING MAJOR CONTOUR LINE	---	TEMPORARY LIMIT OF DISTURBANCE LINE
---XXX---	EXISTING MINOR CONTOUR LINE	---	SILT FENCE LINE
X.XX.X	EXISTING SPOT GRADE	---	AT-GRADE BITUMINOUS CONCRETE SURFACE
---	CHAIN LINK FENCE	---	AT-GRADE BITUMINOUS CONCRETE SURFACE W/ HANDRAIL
---	TREE LINE	---	PROCESSED GRAVEL SURFACE
---	EDGE OF WATER	---	RAISED BOARDWALK W/ HANDRAIL
---	200' RIVERBANK WETLAND	---	RAISED BOARDWALK W/ HANDRAIL
---	WETLAND BOUNDARY AND FLAG NUMBER	---	
---	PROPOSED PATH LOCATION AS FLAGGED ON SITE	---	



LOAM & SEED
(FINISH GRADE SLOPES LESS THAN 33%)

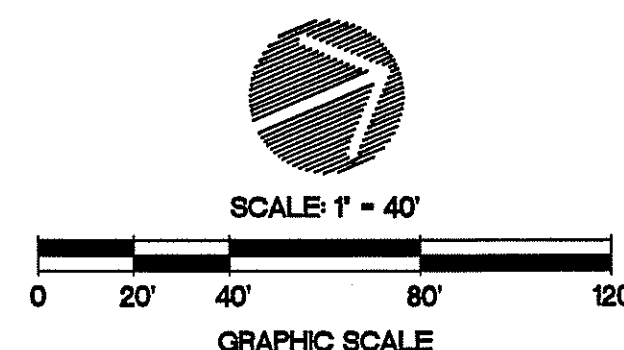
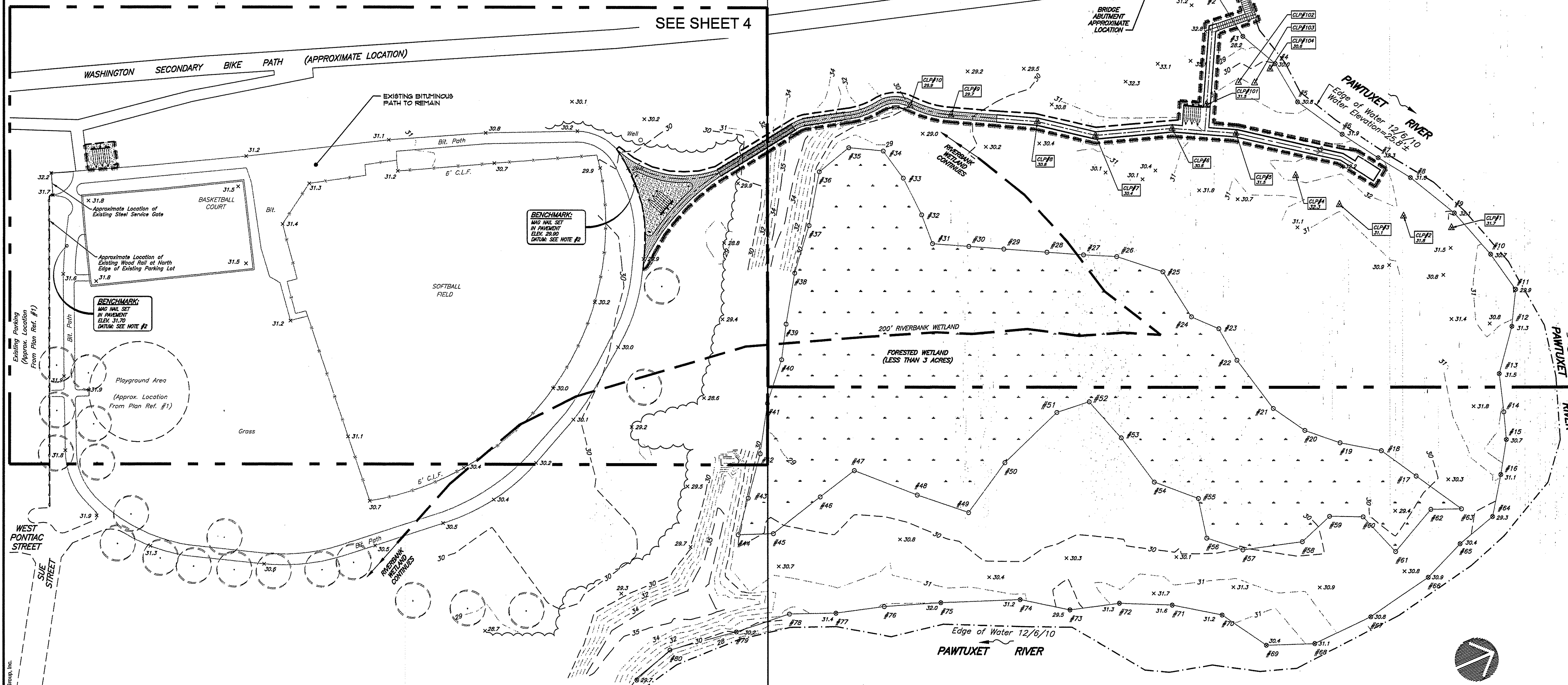
CONSERVATION SEED WITH JUTE MESH FABRIC
(FINISH GRADE SLOPES 33% OR GREATER)

- NOTES:
 1) CONTRACTOR TO LOAM AND SEED ALL DISTURBED AREAS WITH CONSERVATION SEED MIXTURE.
 2) PROVIDE JUTE MESH EROSION CONTROL FABRIC AT ALL LOAM AND SEED AREAS WITH FINISH GRADE SLOPES EQUAL TO OR GREATER THAN 33%.
 3) EROSION CONTROL FABRIC MUST BE INSTALLED IMMEDIATELY UPON COMPLETION OF GRADING WHERE REQUIRED. SEE LAYOUT AND GRADING PLANS.

LOAM AND SEED DETAILS

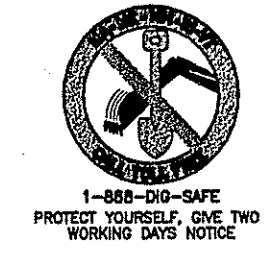
SEE SHEET 4

SEE SHEET 5



No.	Revision:	Date:
1	Per RIDEM Comments	5-17-11

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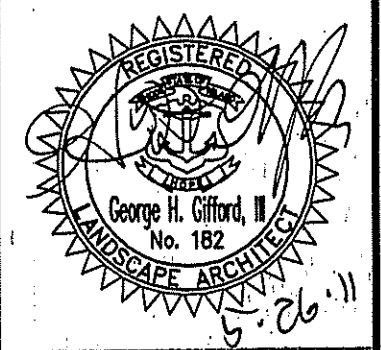


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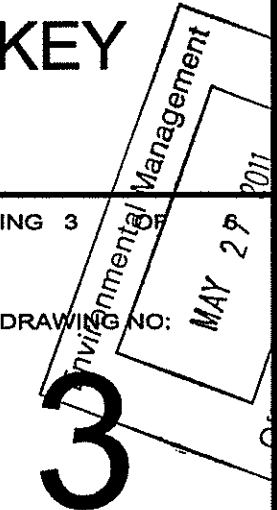
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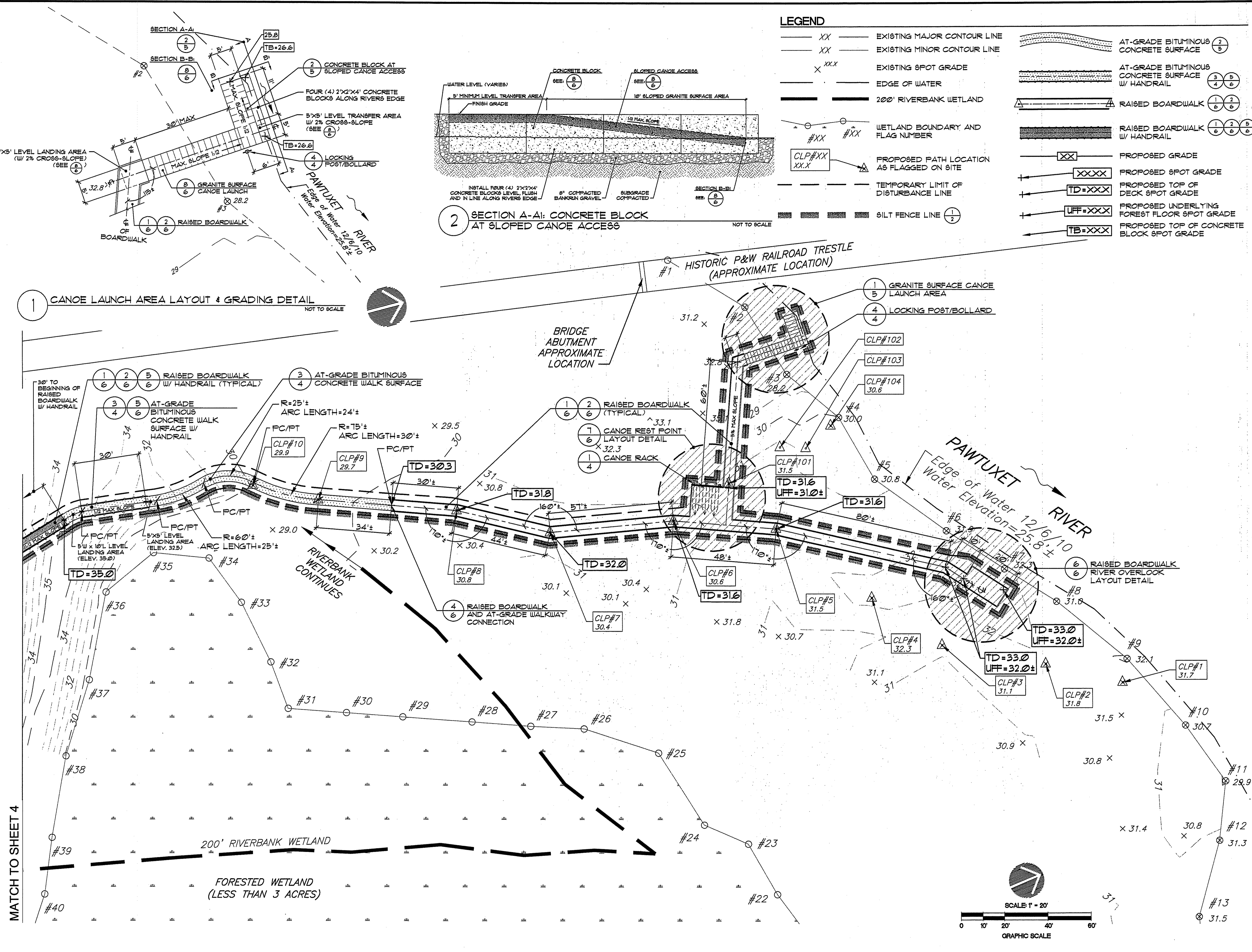
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Charles H. Hucker

OVERALL SITE LAYOUT AND KEY PLAN

PROJECT NO. 274.721	DRAWING 3
DATE: FEBRUARY 2011	DRAWING NO. MAY 2 P 2011
SCALE: AS SHOWN	CHECKED BY: GHG

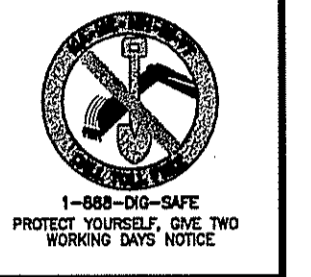


274.721 East Natick Trail, R1, S-11, 11/06/2011.dwg



No.	Revision:	Date:
1	Per RIDEM Comments	5-17-11

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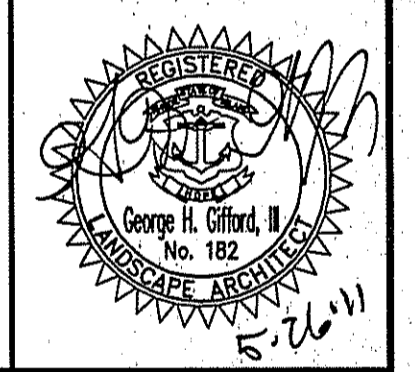
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Charles A. Harkin

LAYOUT AND GRADING PLAN 2

PROJECT NO. 274.721 DRAWING 5
 DATE: FEBRUARY 2011 DRAWING NO. 5
 SCALE: AS SHOWN
 DRAWN BY: KMA, WS
 CHECKED BY: GHG

5
 MAY 27 2011

274-271 East Natick Riverwalk, 01-11-2011

No:	Revision:	Date:
1	Per RIDEM Comments	5-17-11

REFERENCES:

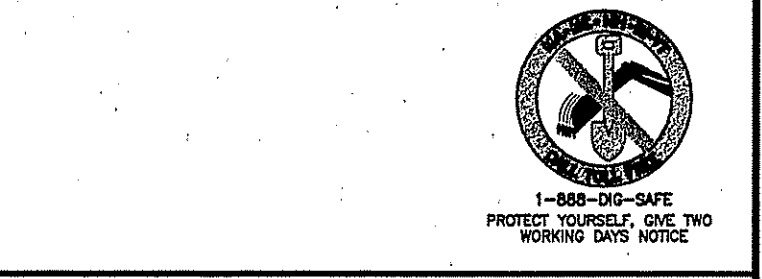
1. HELICAL SCREW ANCHOR SHALL BE SIMILAR TO 3" OD PIPE SHARP SCREW ANCHORS AS MANUFACTURED BY A.B. CHANCE, CO. OR APPROVED EQUAL.

2. HOT DIPPED GALVANIZED PER ASTM A-88. MATERIAL FOR SADDLE HOT ROLLED STEEL BOLTS: 1/2" DIA. HEX HEAD, 4-1/2" LONG WITH 1/4" END LOCKWASHER.

3. SADDLE LB MAX LOAD CAPACITY ONLY. SADDLE SUPPORT BRACKET BY LATERAL TO SUPPORT OPTION WHEN REQUIRED. CONFORM BY HARBELL, POLYMER SYSTEMS, OR EQUAL.

GENERAL NOTES:

1. THIS DETAIL IS SHOWN FOR REFERENCE ONLY. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE STAMPED R.I. ENGINEERED SHOP DRAWINGS OF RAISED BOARDWALK AND RAISED BOARDWALK SUPPORT SYSTEM. SOIL BEARING CAPACITY TO BE DETERMINED BY CONTRACTOR.



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Charles A. Hester

DETAILS

PROJECT NO. 274-721 DRAWING B

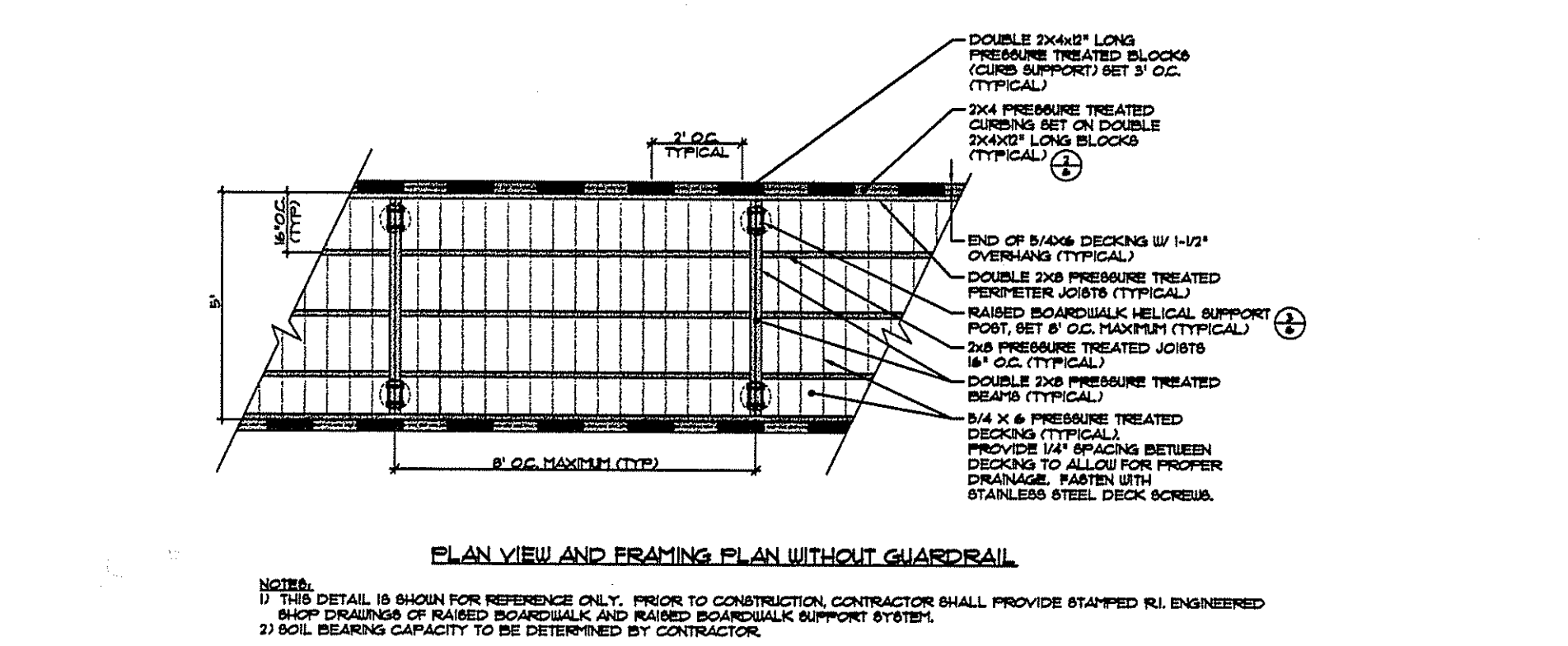
DATE: FEBRUARY 2011 DRAWING NO. 6

SCALE: AS SHOWN

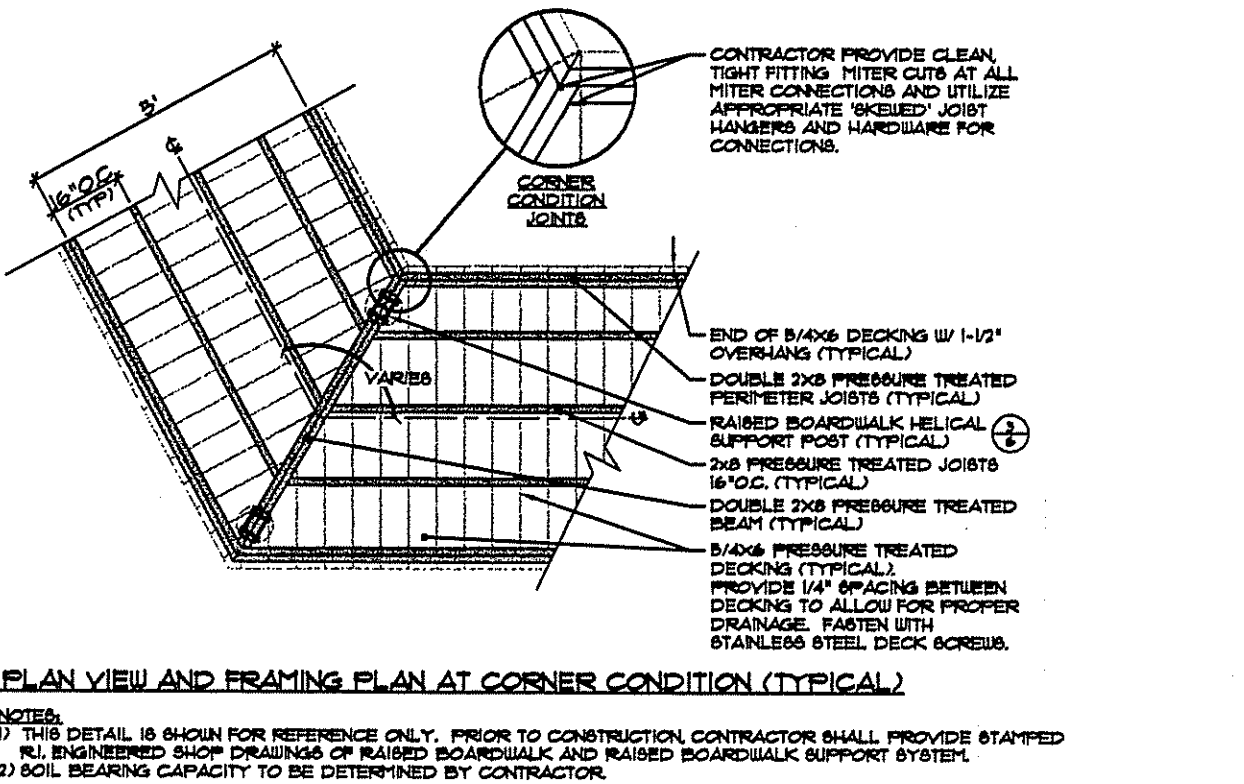
DRAWN BY: KMA, WS

CHECKED BY: GHG

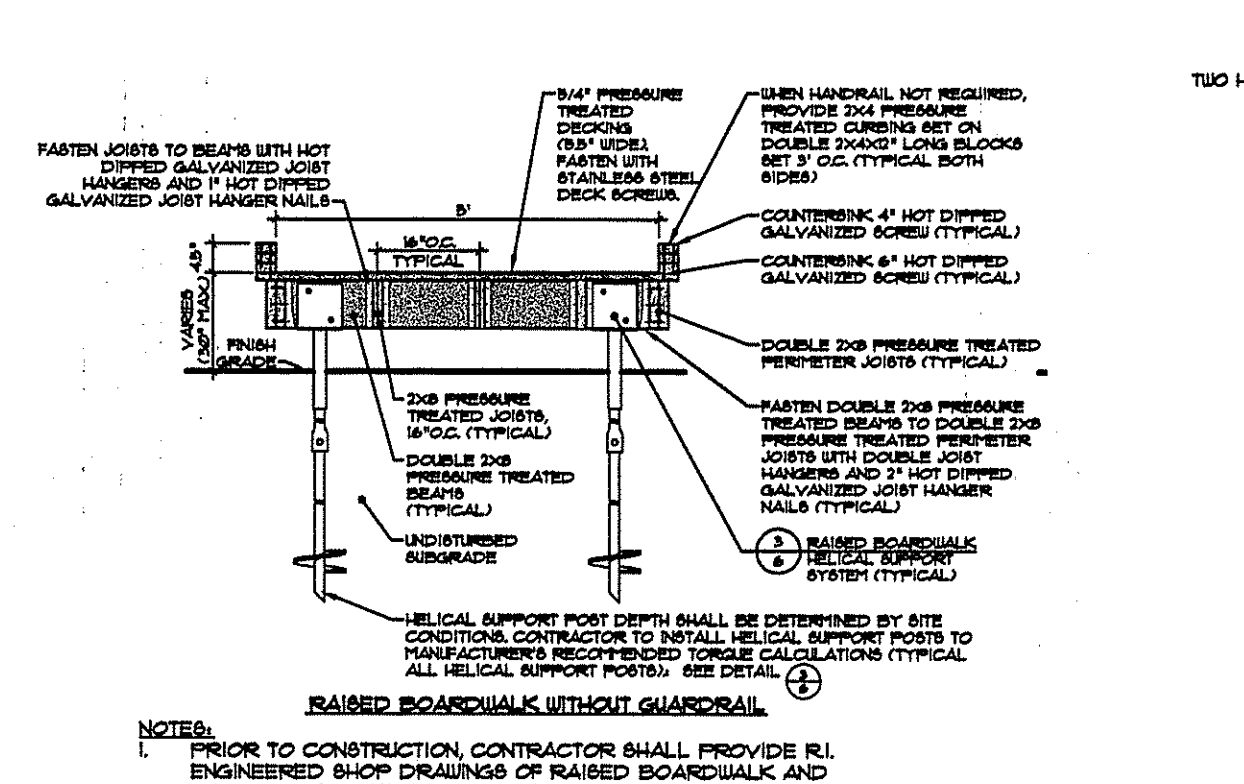
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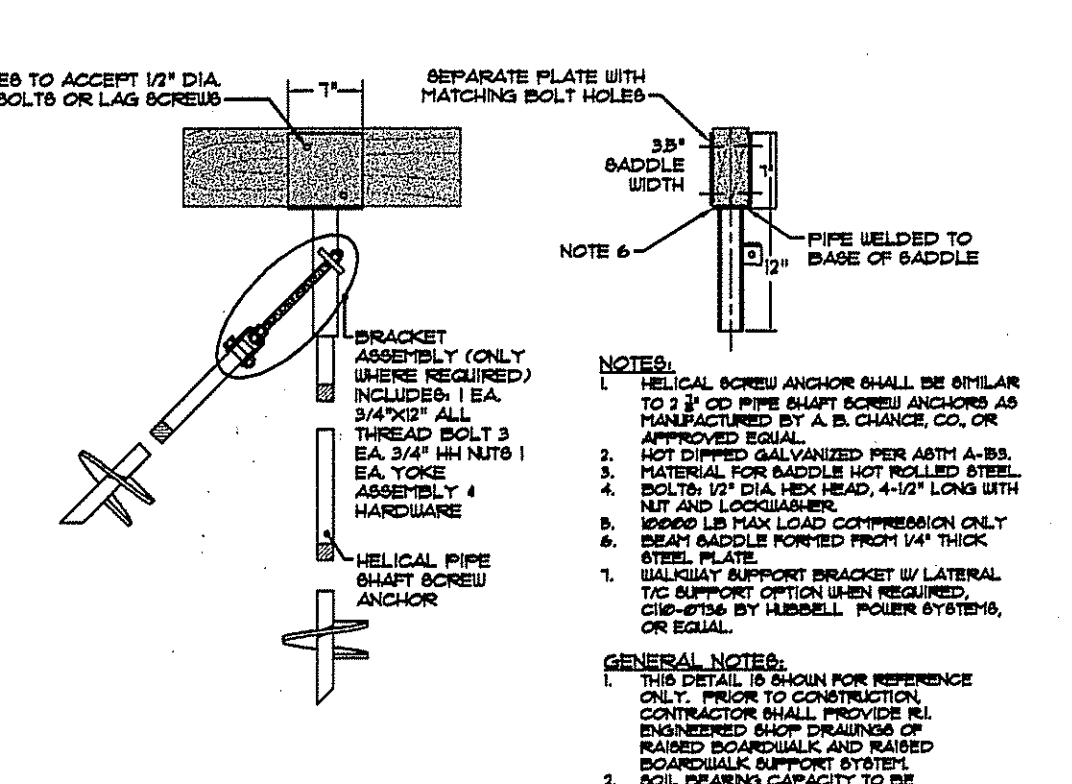
1 RAISED BOARDWALK TYPICAL FRAMING DETAILS



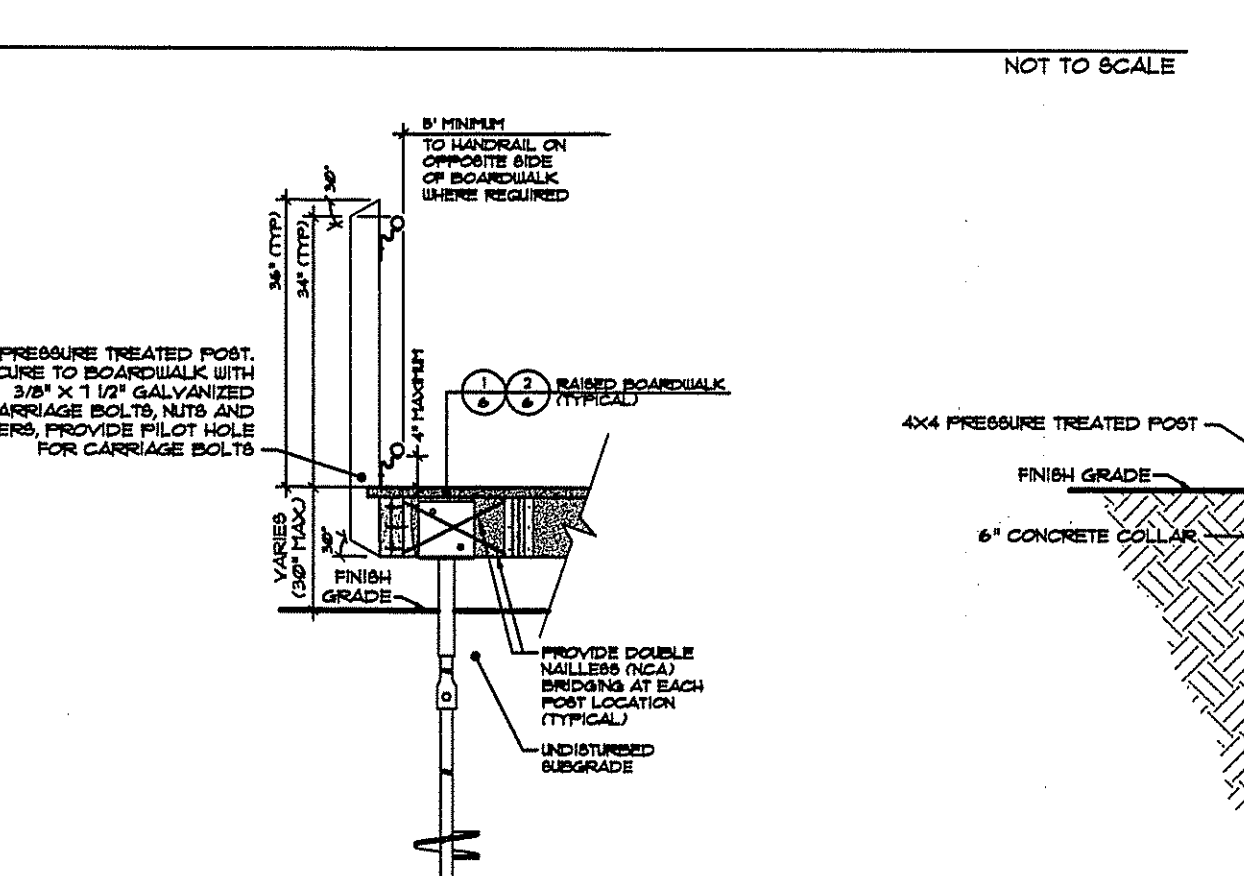
2 RAISED BOARDWALK SECTION DETAIL



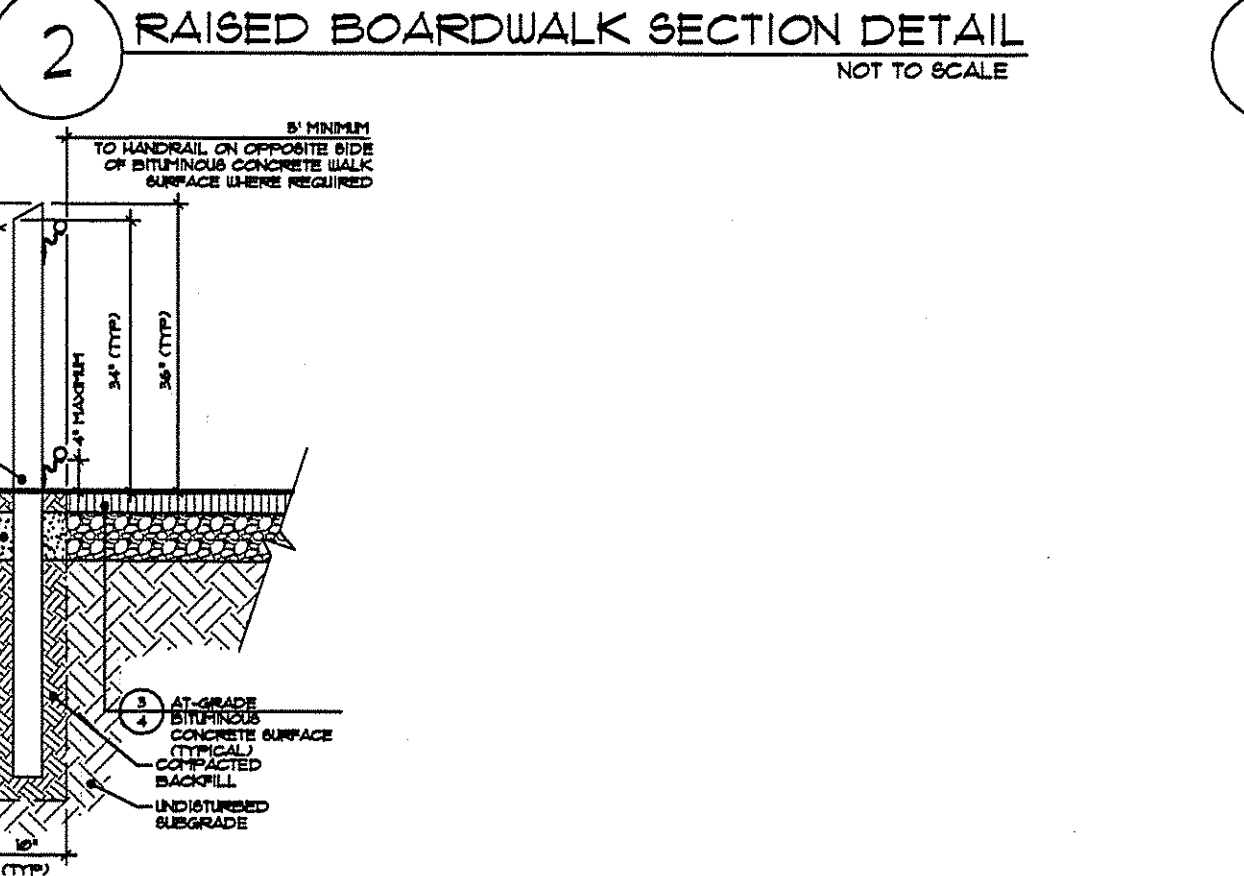
3 RAISED BOARDWALK HELICAL SUPPORT SYSTEM



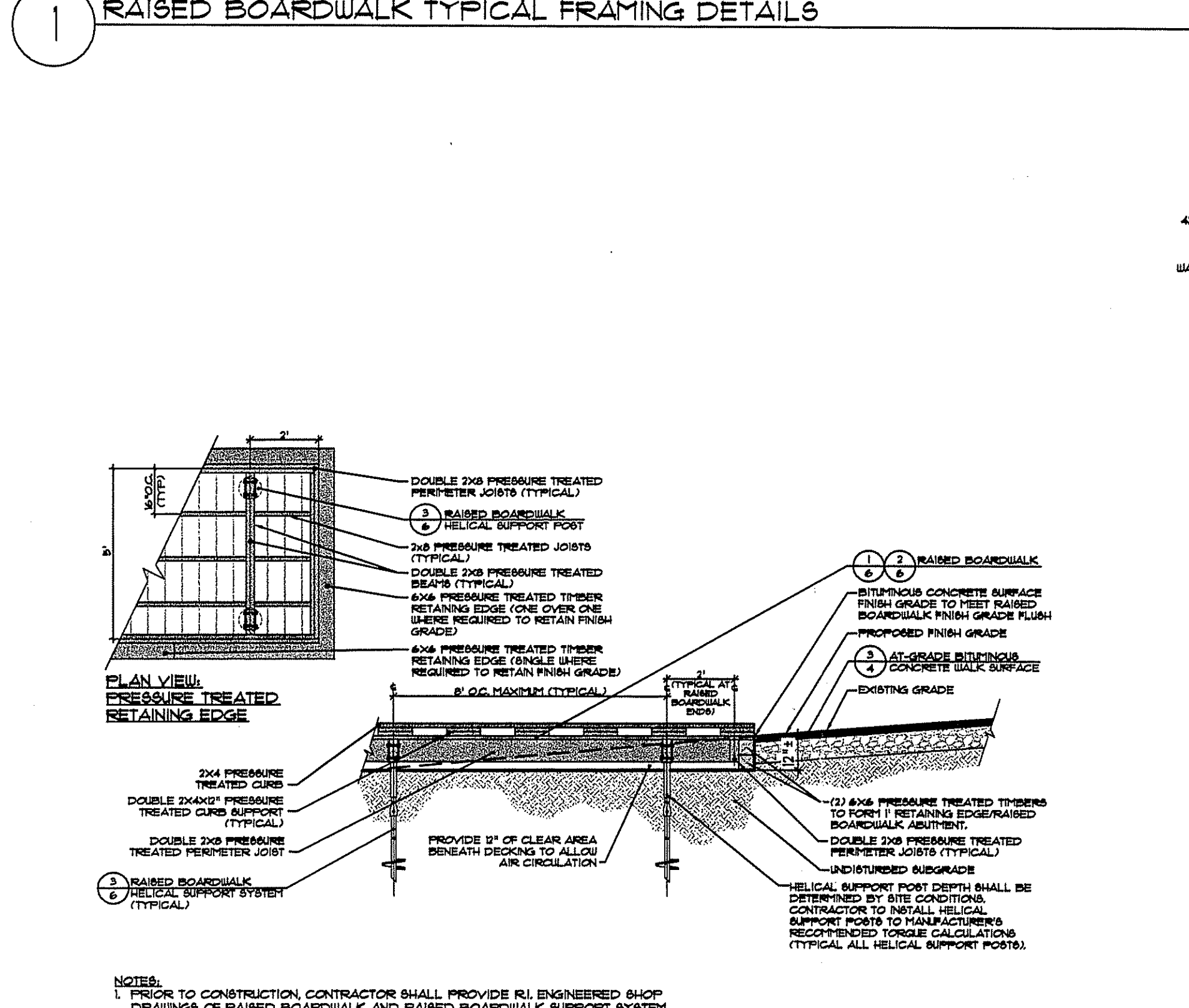
4 RAISED BOARDWALK AND AT-GRADE BITUMINOUS CONCRETE WALKWAY



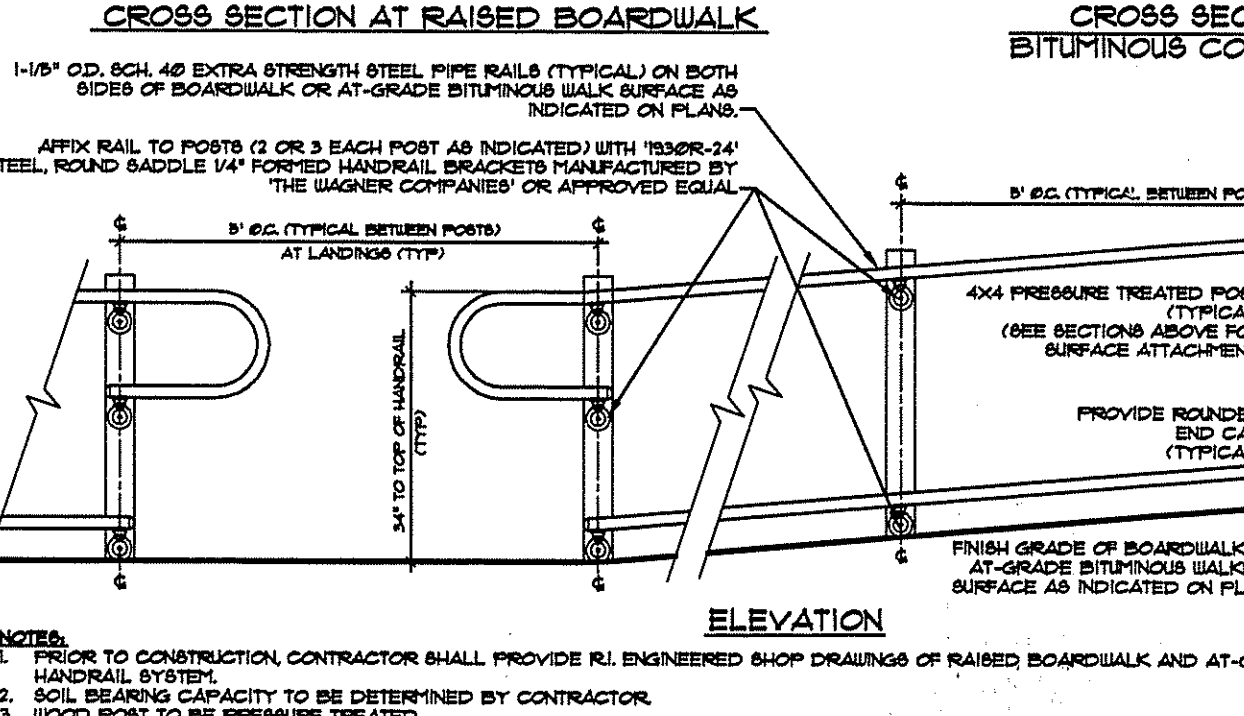
5 HANDRAIL DETAIL



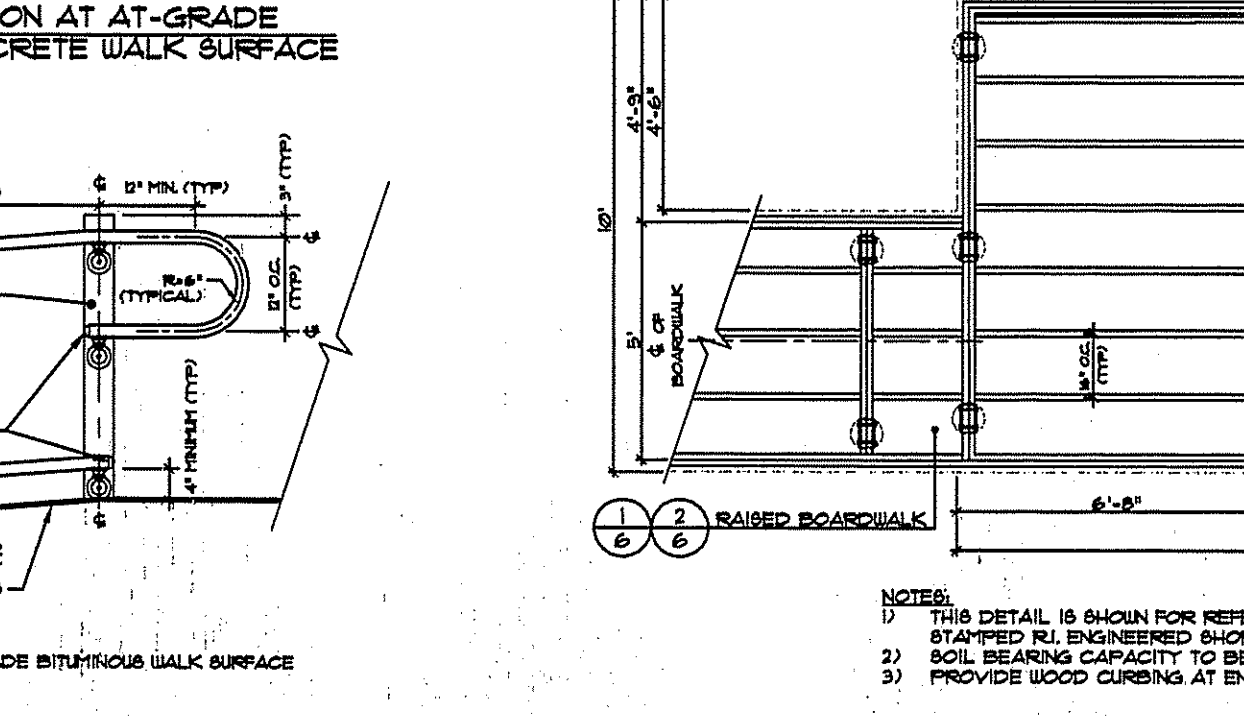
6 RAISED BOARDWALK RIVER OVERLOOK LAYOUT DETAIL



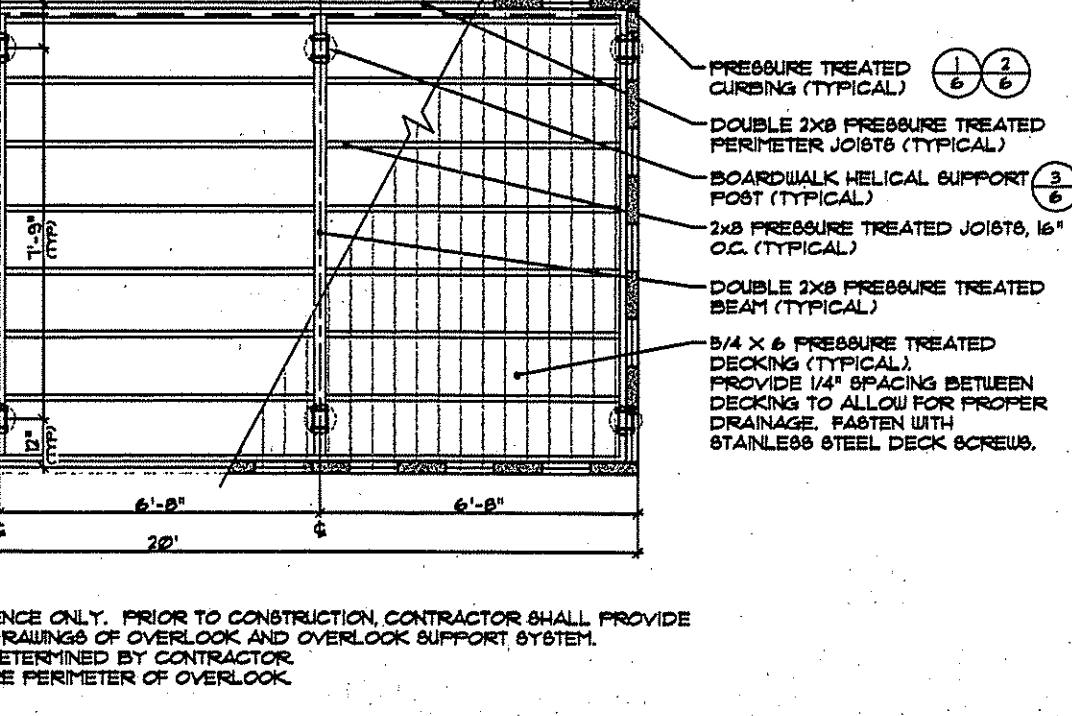
7 CANOE REST POINT LAYOUT DETAIL



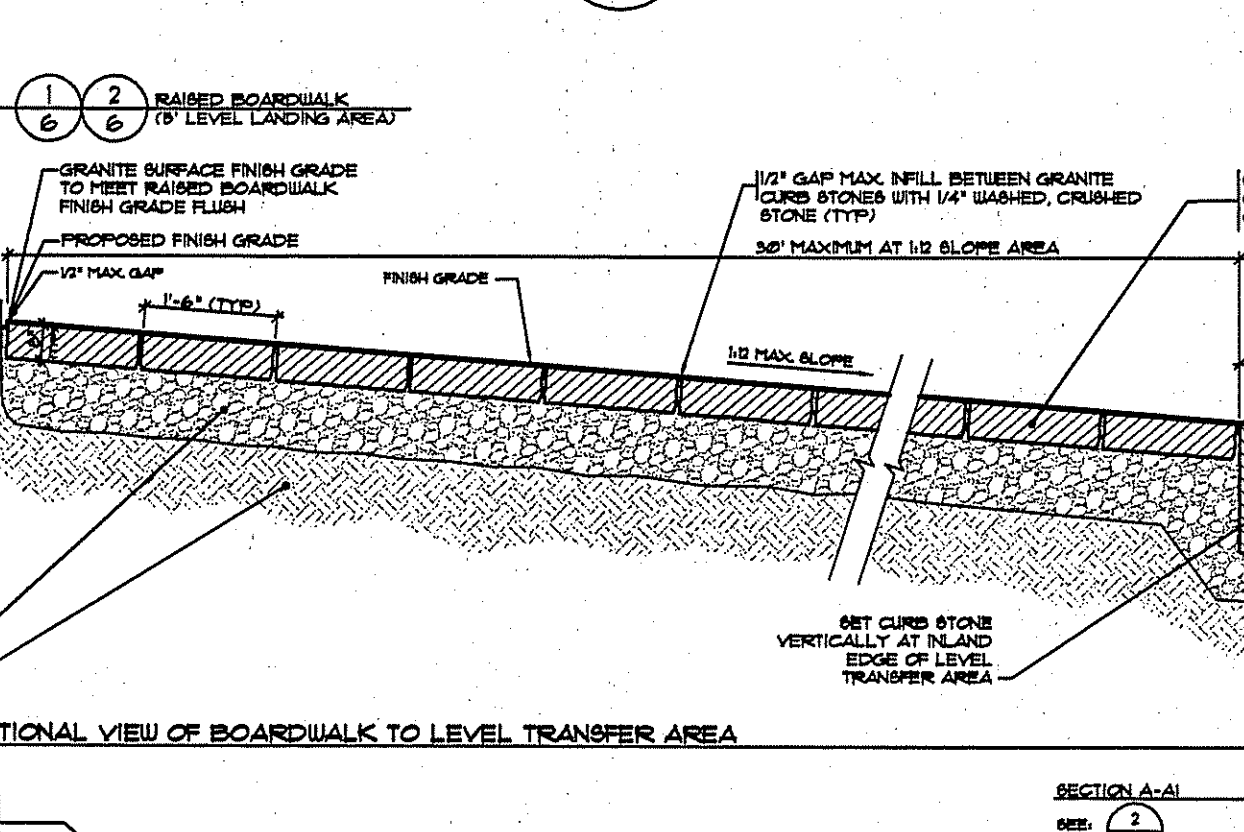
8 GRANITE SURFACE CANOE LAUNCH AREA DETAIL



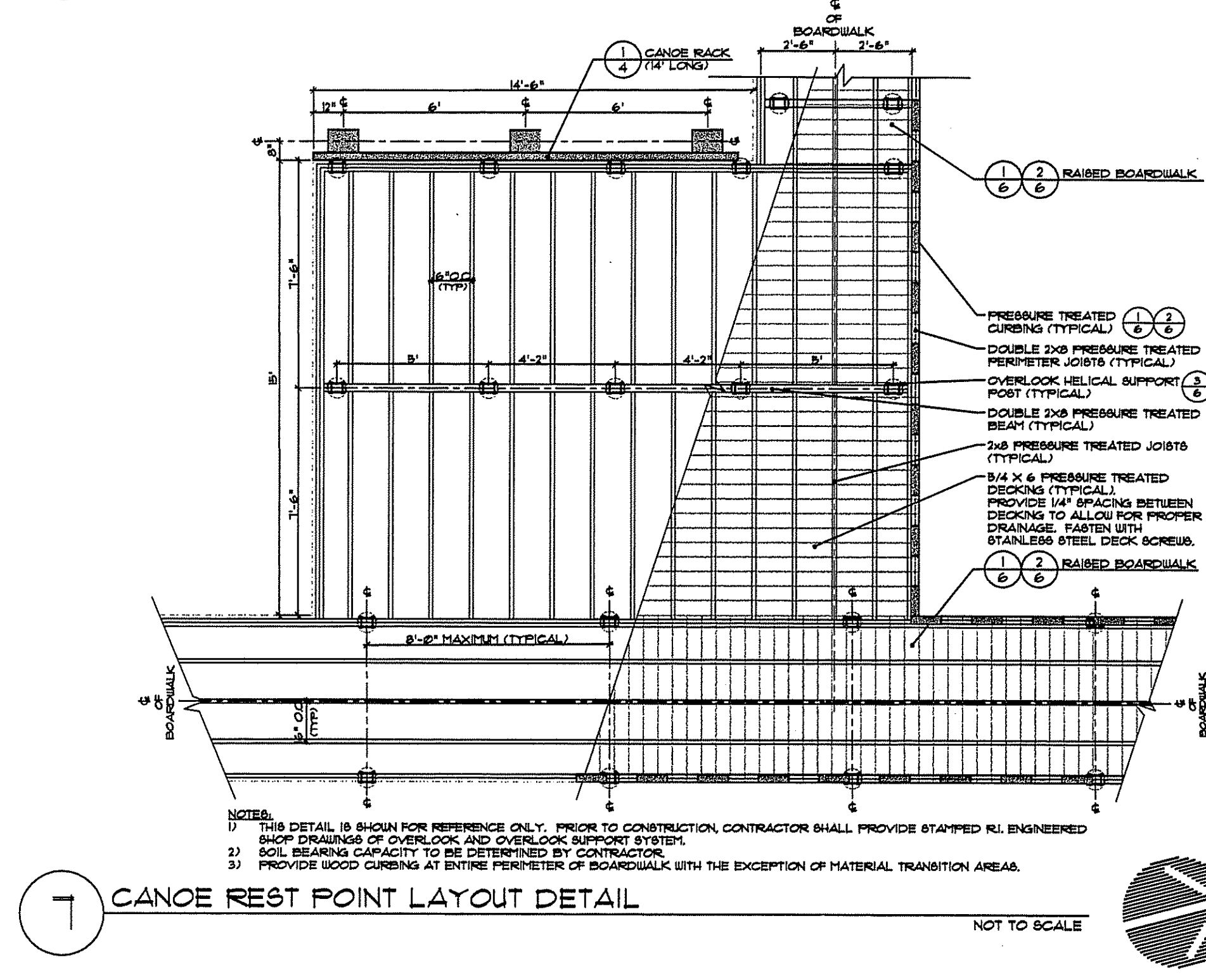
9 SECTIONAL VIEW OF BOARDWALK TO LEVEL TRANSFER AREA



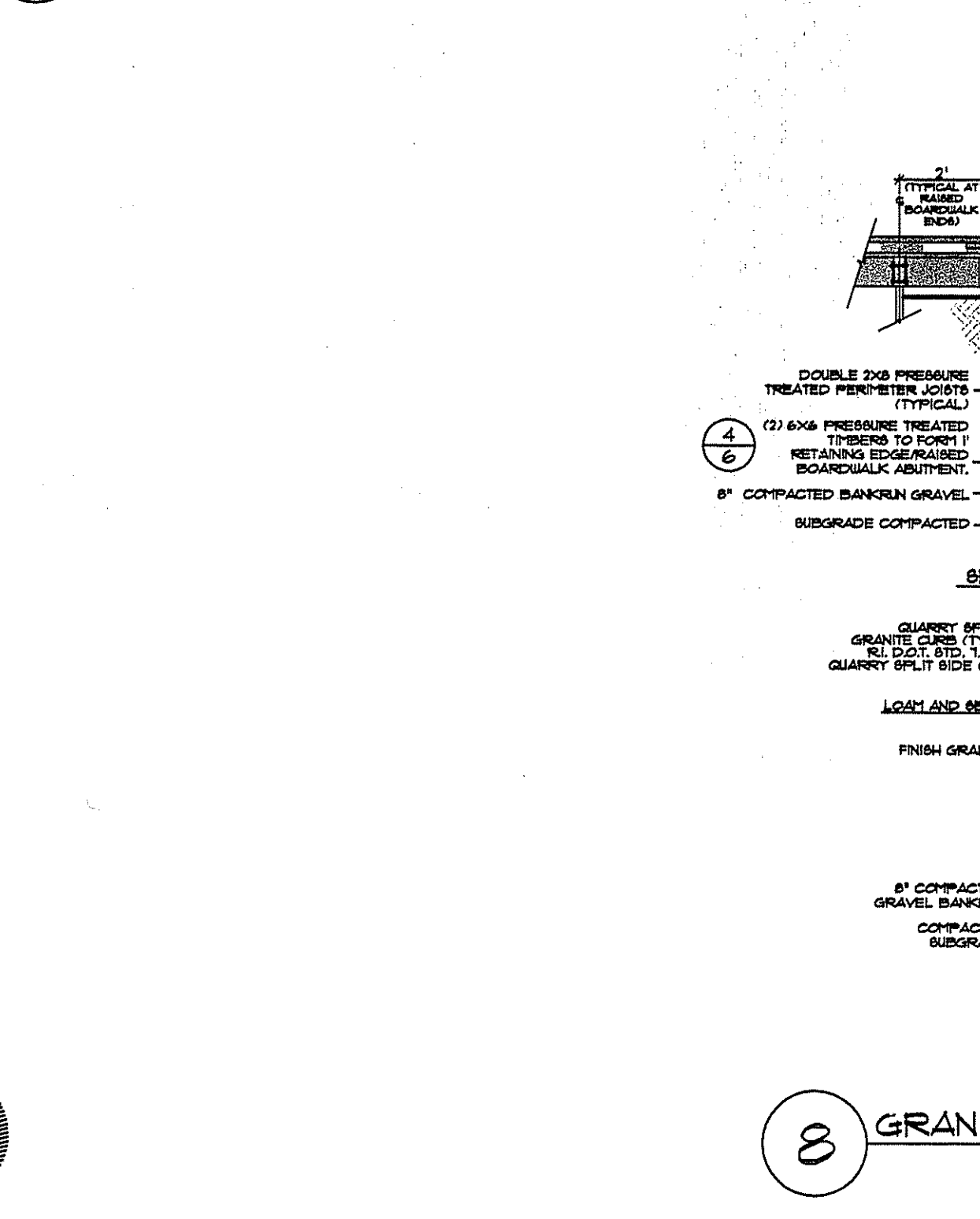
10 TYPICAL SECTIONAL VIEW OF GRANITE CURB STONE INSTALLATION



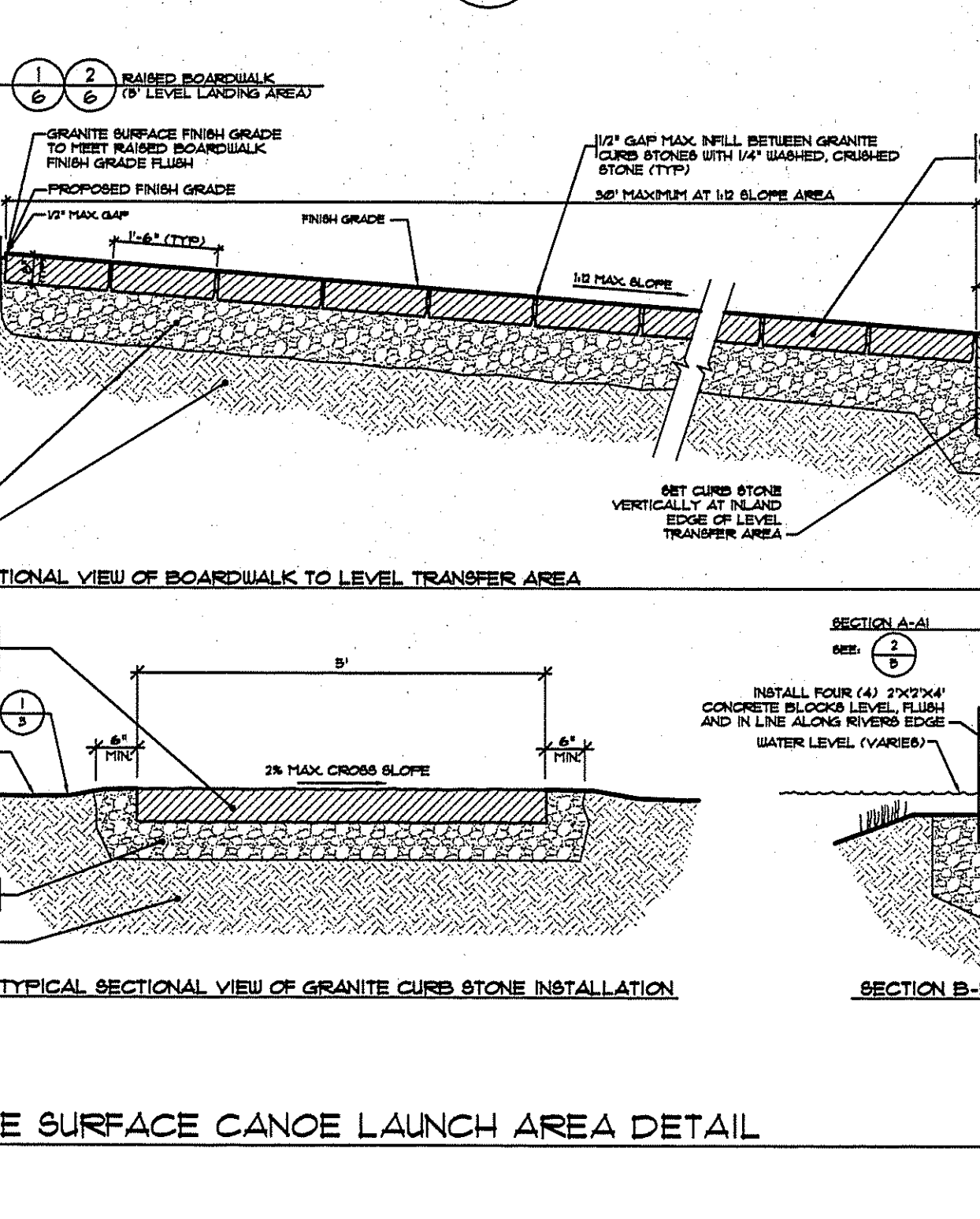
11 SECTION B-B GRANITE CURB STONE INSTALLATION AT SLOPED CANOE ACCESS



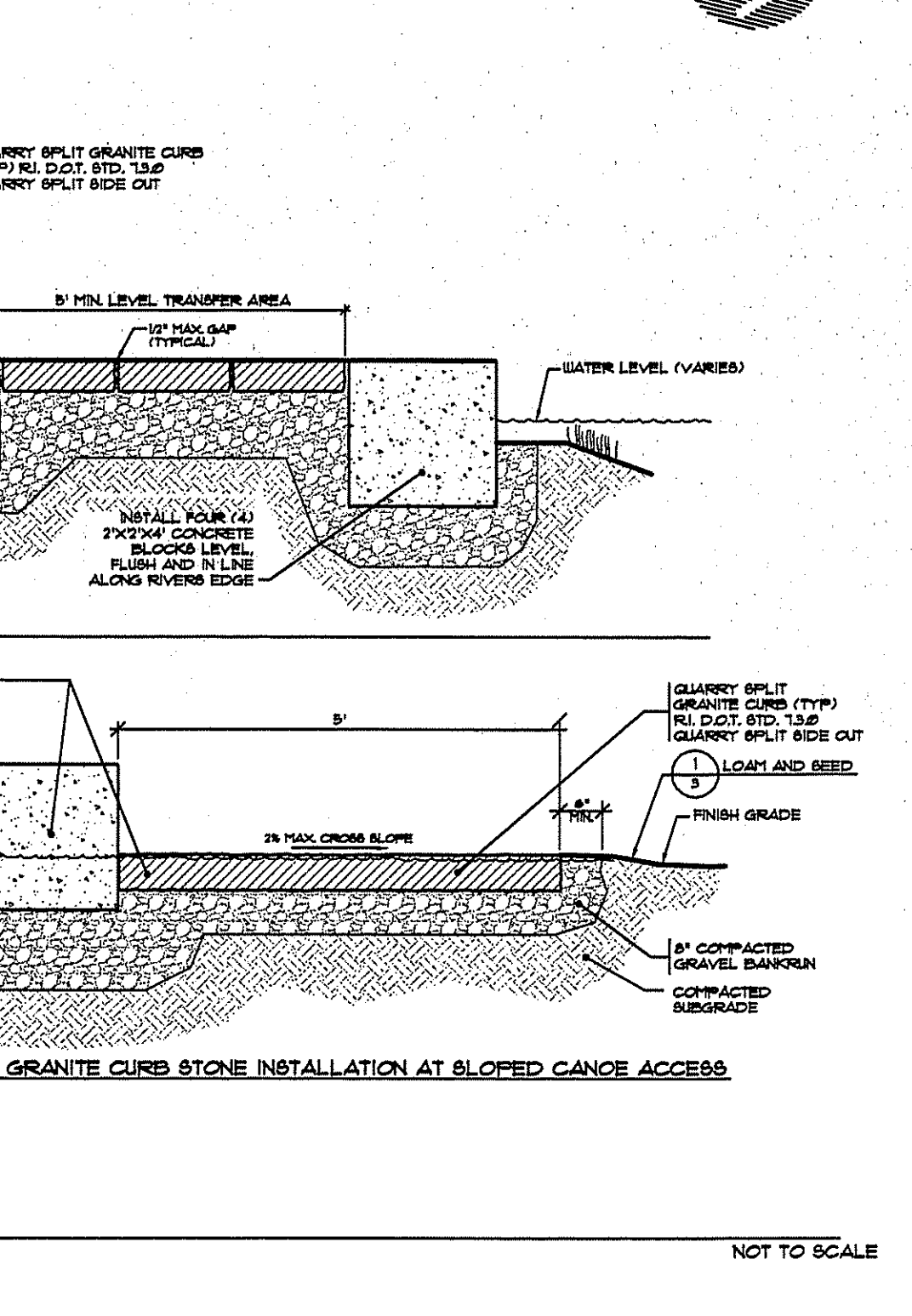
12 CANOE REST POINT LAYOUT DETAIL



13 SECTIONAL VIEW OF BOARDWALK TO LEVEL TRANSFER AREA



14 TYPICAL SECTIONAL VIEW OF GRANITE CURB STONE INSTALLATION



15 SECTION B-B GRANITE CURB STONE INSTALLATION AT SLOPED CANOE ACCESS