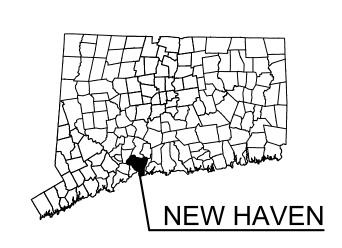
RIVER STREET SHORELINE IMPROVEMENTS CITY OF NEW HAVEN OFFICE OF ECONOMIC DEVELOPMENT 165 CHURCH STREET NEW HAVEN, CT 06510

JUNE 20, 2017

Union Cem Fair Haven WOOLSEY ST EXCHANGE ST Barnesville Dragon Point LOCATION -Tomlinson-Bridge Water Stable Point Street Fair Haven East Bridge USGS NEW HAVEN QUADRANGLE CONNECTICUT-NEW HAVEN CO.

VICINITY MAP

APPROX. SCALE: 1" = 1000'-0"





APPROX. SITE

LIST OF DRAWINGS

DRAWING NO. DRAWING NAME

TITLE SHEET, DRAWING LIST & VICINITY MAP

PROJECT NOTES AND SEDIMENTATION & EROSION CONTROL

EXISTING SITE PLAN

PARTIAL EXISTING PLAN 1 OF 2

PARTIAL EXISTING PLAN 2 OF 2

EXISTING SECTIONS

REPAIR SITE PLAN

PARTIAL REPAIR PLAN 1 OF 2

PARTIAL REPAIR PLAN 2 OF 2

REPAIR SECTIONS 1 OF 2

REPAIR SECTIONS 2 OF 2

BULKHEAD PLANS 1 OF 2

BULKHEAD PLANS 2 OF 2

BULKHEAD CLOSURE DETAILS

BULKHEAD DETAILS 1 OF 3

BULKHEAD DETAILS 2 OF 3

BULKHEAD DETAILS 3 OF 3



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CITY OF NEW HAVEN OFFICE OF ECONOMIC DEVELOPMENT 165 CHURCH STREET NEW HAVEN, CT 06510

RIVER STREET SHORELINE IMPROVEMENTS RIVER STREET NEW HAVEN, CT 06513

TITLE SHEET, DRAWING LIST, & **VICINITY MAP**

Designed By:		Date:	
	CGE	06/2	20/2017
Drawn By:		Scale:	
	CLW	,	As Noted
Checked By:		Project Number:	
	TD		201684
CAD File:		Drawing No.:	
CNHOED_RIVERST	REET		

1 of 17

AERIAL PHOTO APPROX. SCALE: 1" = 300'-0"

GENERAL NOTES

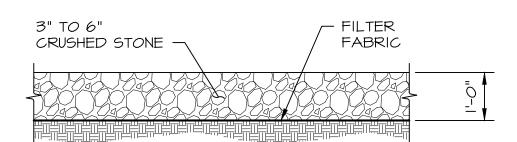
- I. WORK SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE CONTRACT SPECIFICATIONS INCLUDE THE CITY OF NEW HAVEN STANDARD SPECIFICATIONS AS AMENDED AND SUPPLEMENTED BY PROJECT SPECIFIC SECTIONS.
- 2. AVAILABLE BORING LOGS AND SUBSURFACE INFORMATION IS PROVIDED FOR BIDDERS INFORMATION IN MEMORANDUM TITLED "RIVER STREET SHORELINE IMPROVEMENTS, QUINNIPIAC RIVER, NEW HAVEN, CONNECTICUT, SUBSURFACE DATA", PREPARED BY RACE AND DATED JANUARY 18, 2017.
- 3. IF, DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR FINDS A CONFLICT, ERROR, OR DISCREPANCY IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SO REPORT TO THE ENGINEER IN WRITING AT ONCE. BEFORE PROCEEDING WITH THE WORK AFFECTED THEREBY, THE CONTRACTOR SHALL OBTAIN A WRITTEN INTERPRETATION OR CLARIFICATION FROM THE ENGINEER. ANY WORK DONE BEFORE THE ENGINEER RENDERS HIS DECISION IS AT THE CONTRACTOR'S SOLE RISK.
- 4. SITE PLAN BASED ON INFORMATION FROM :
- PROPERTY TOPOGRAPHIC SURVEY, 46 AND 56 RIVER STREET, NEW HAVEN, CT, 7/30/2016 BY WESCOTT AND MAPES, INC.
- EXISTING SITE PLAN AND SECTIONS, 7 SHEETS, RIVER STREET WATERFRONT DEVELOPMENT, QUINNIPIAC RIVER, NEW HAVEN, CT, 2/8/2016 BY ROBERGE ASSOCIATES COASTAL ENGINEERS (RACE).
- EXHIBIT C: DECLARATION OF ENVIRONMENTAL LAND USE RESTRICTION AND GRANT EASEMENT FORMER HESS TERMINAL, IOO RIVER STREET, NEW HAVEN, CONNECTICUT, 9/8/2015, BY WESCOTT AND MAPES, INC.
- TOPOGRAPHIC SURVEY, SHORELINE STABILIZATION AND LLOYD STREET CONSTRUCTIONS (AS BUILT), 07/30/15 BY MILONE AND MACBROOM
- RESUBDIVISION SURVEY #90 RIVER STREET, NEW HAVEN, CONNECTICUT MAP 165, BLOCK 609, PARCEL 4, 1/2/2009 BY WESCOTT AND MAPES, INC.
- SUPPLEMENTARY INFORMATION OBTAINED BY RACE COASTAL ENGINEERING, LLC ON II/02/2016 AND ONLY REPRESENT THE SITE CONDITIONS AT THAT TIME.
- TIDAL ELEVATION DATA HAS BEEN TAKEN FROM PAST SURVEYS AND PERMITS (AS CONVERTED TO NAVD88). THESE VALUES APPROXIMATELY CORRELATE TO THOSE INTERPOLATED FROM THE 1988 TIDAL PROFILES AS PREPARED BY USACE.
- 5. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- 6. CONTRACTOR SHALL HIRE A LICENSED LAND SURVEYOR TO STAKE THE CJL LINE. CJL SHALL BE CLEARLY DEMARCATED AND STAKES AND MARKERS PROTECTED AND MAINTAINED DURING THE PROJECT DURATION.
- 7. DRAINAGE FEATURES INDICATED ARE TO FACILITATE BULKHEAD CONSTRUCTION AND ARE AN INTERIM CONDITION, FINAL DRAINAGE DESIGN AND CONSTRUCTION TO BE BY OTHERS FOR SITE DEVELOPMENT. CLOSURES OR UPDATES TO PENETRATIONS THROUGH BULKHEAD FOR DRAINAGE UPDATES SHALL BE REVIEWED BY ENGINEER FOR COMPATIBILITY WITH BULKHEAD DESIGN. INCREASE OF EXISTING GROUNDWATER TABLE FROM DEVELOPMENT BY OTHERS IS TO BE AVOIDED.
- 8. UTILITIES: CONTRACTOR IS RESPONSIBLE FOR CALL BEFORE YOU DIG (CBYD) AND ALL COORDINATION WITH UTILITY COMPANIES. ALL UTILITY LINES SHALL BE MARKED IN THE FIELD WITH COORDINATION OF THE UTILITY COMPANIES AND PROTECTED.
- 9. GUARDS TO BE INSTALLED BY OTHERS AT CITY'S DIRECTION WHERE REQUIRED PER CONNECTICUT STATE BUILDING CODE SECTION 1013.9 (AMD).
- IO. PROPOSED BULKHEAD HAS BEEN DESIGNED FOR AN ALLOWABLE LIVE LOAD SURCHARGE OF 250 POUNDS PER SQUARE FOOT.



PROJECT TIDAL ELEVATIONS:

DATUM	NAVD 88 (FT)	NGVD 29 (FT)	MLW (FT)
COASTAL JURISDICTIONAL LIMIT	+4.60'	+5.60'	+8.10'
HIGH TIDE LINE	+4.60'	+5.60'	+8.10'
MEAN HIGH WATER	+2.80'	+3.80'	+6.30'
NAVD 88	0.00'	+1.0'	+3.50'
NGVD 29	-1.04'	0.00'	+2.50'
MEAN LOW WATER	-3.50'	-2.46'	0.00'

* PER NOAA VERTCON- EL. 0.00' NAVD88 = EL. +1.04' NGVD29

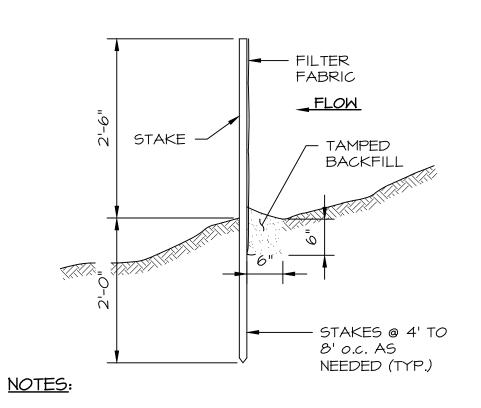


ANTI-MUD TRACKING PAD SECTION

SCALE: 1/2" = 1'-0"

SEDIMENTATION & EROSION CONTROL PLAN

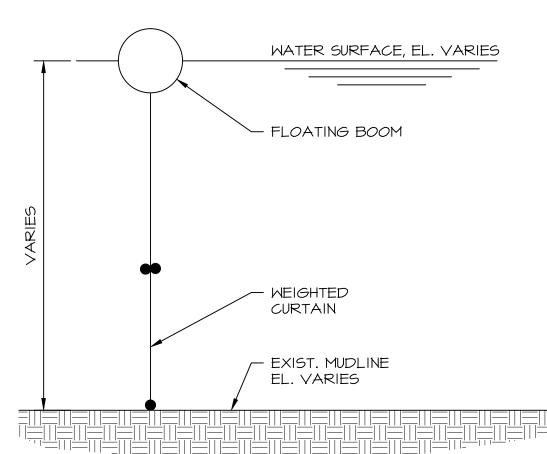
APPROX. SCALE: 1" = 80'-0"



- I. DO NOT INSTALL SILT FENCE BELOW MEAN HIGH WATER (M.H.W.).
- 2. PRIOR TO REMOVAL OF SILT FENCE, CONTRACTOR SHALL REMOVE & DISPOSE OF MATERIAL COLLECTED BY SILT FENCE AND RE-GRADE DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS.

SILT FENCE DETAIL

SCALE: 3/4"" = 1'-0"



NOTES:

- I. FLOATING TURBIDITY BARRIER TO BE ANCHORED APPROPRIATELY TO PROVIDE LATERAL STABILITY.
- 2. PROVIDE TURBIDITY CURTAIN WHERE SOIL IS DISTURBED AT OR BELOW THE WATER LINE, TURBITY CURTAIN TO BE INSTALLED PRIOR TO EXCAVATING OR DISTURBING

TURBIDITY CURTAIN DETAIL SCALE: 1" = 1'-0"



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PREPARED FOR

CITY OF NEW HAVEN OFFICE OF ECONOMIC DEVELOPMENT 165 CHURCH STREET NEW HAVEN, CT 06510

PROJECT:

RIVER STREET
SHORELINE IMPROVEMENTS
RIVER STREET
NEW HAVEN, CT 06513

DRAWING:

PROJECT NOTES AND SEDIMENTATION & EROSION CONTROL

Designed By:		Date:
	CGE	06/20/2017
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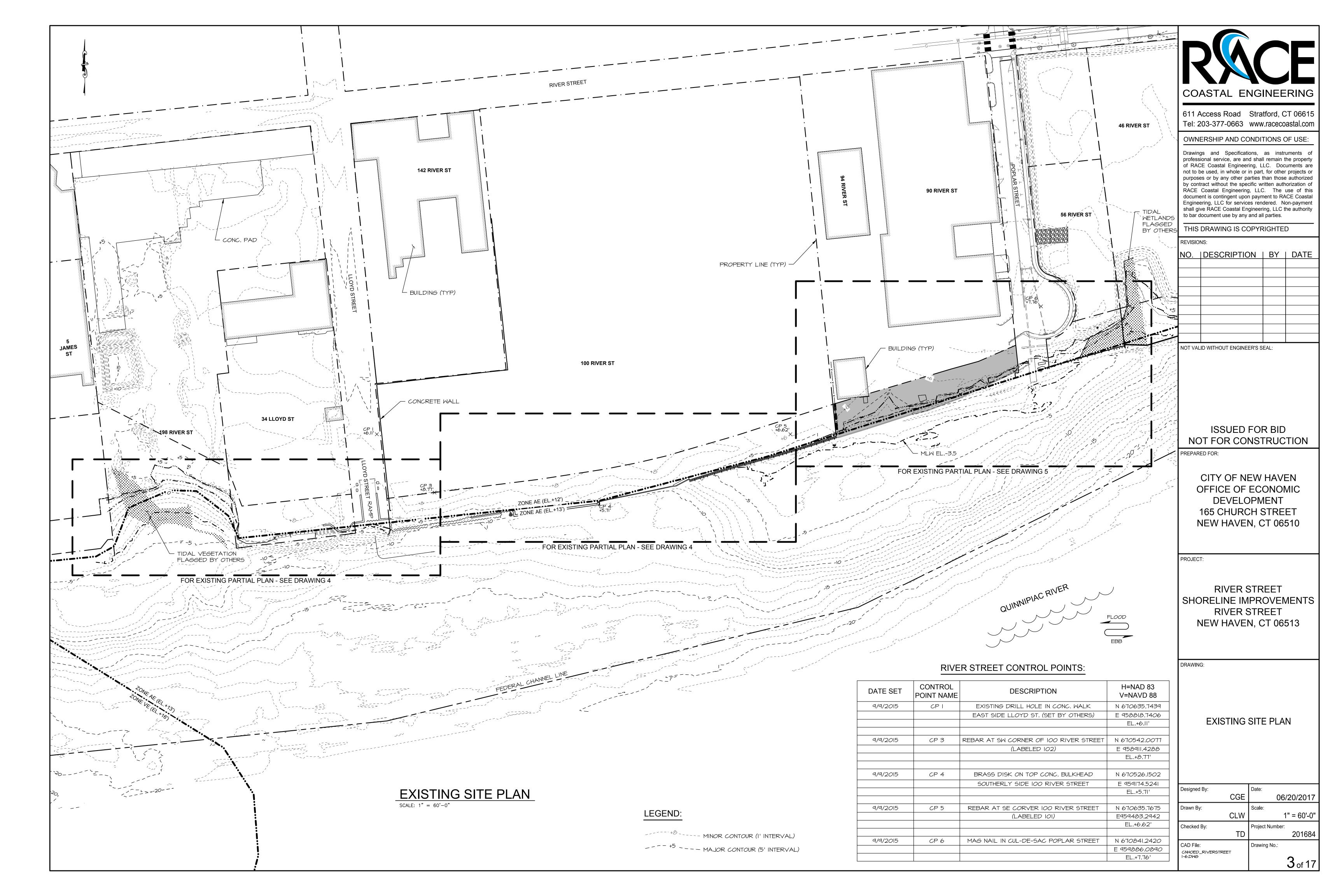
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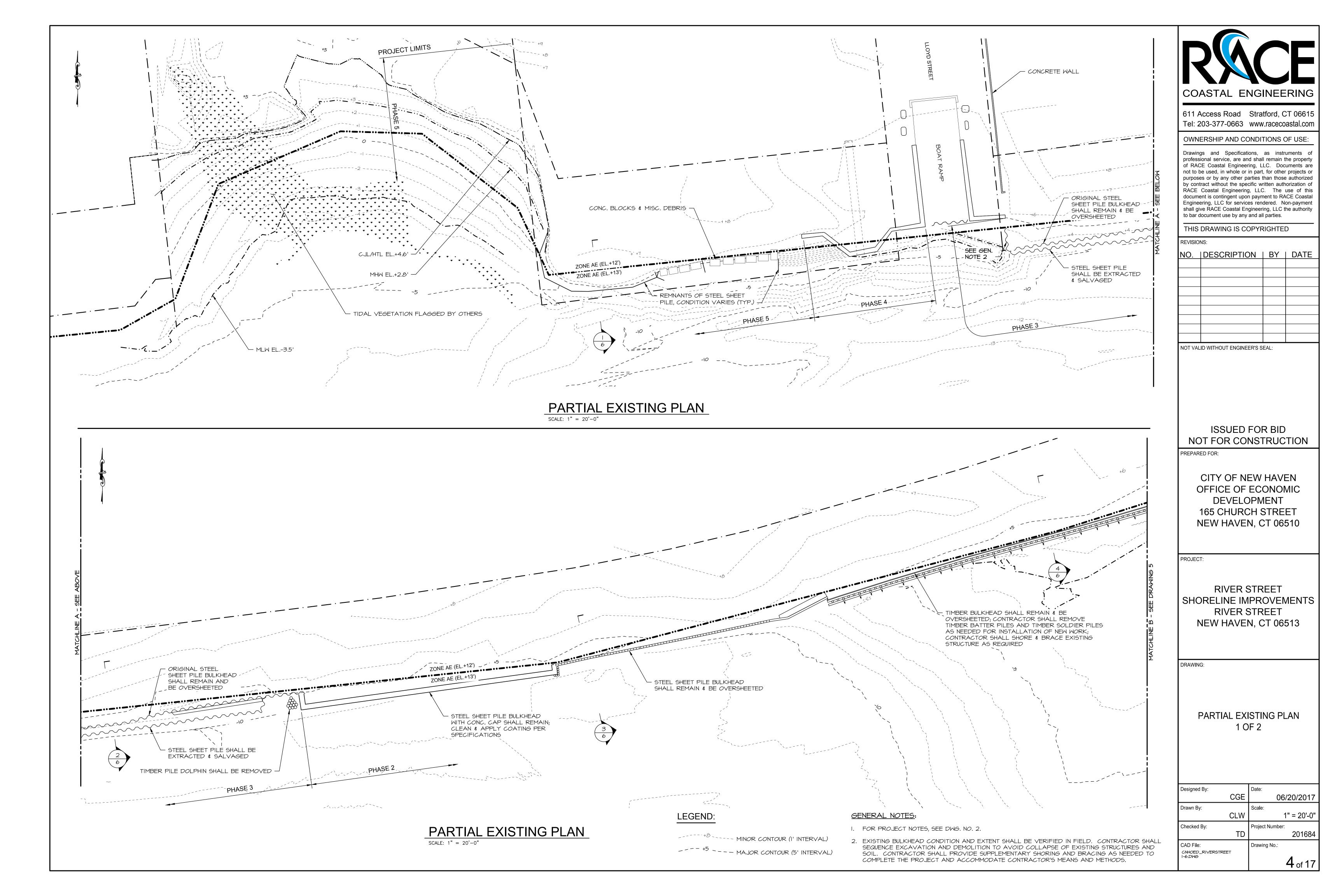
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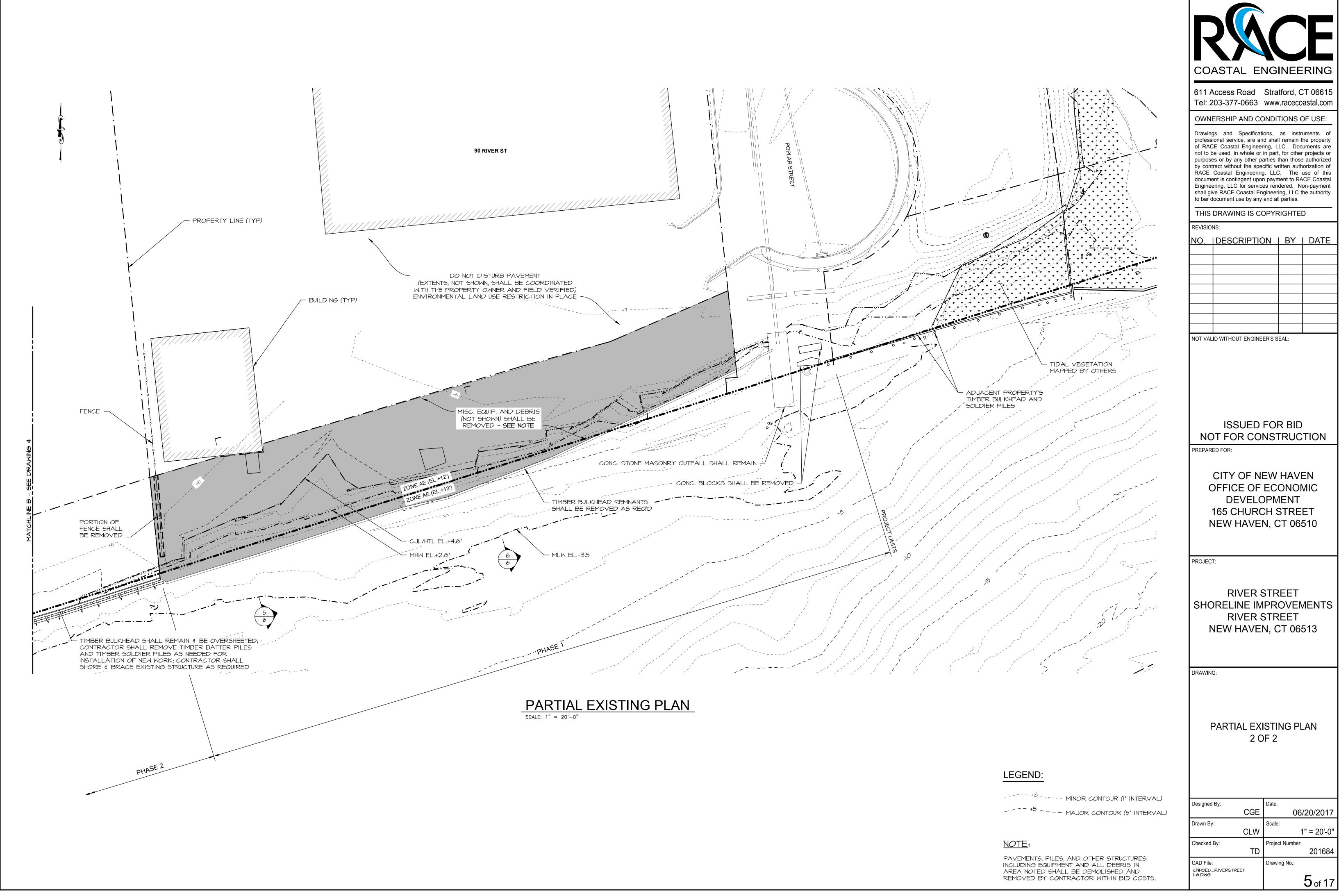
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Drawing No.:

2 of 17

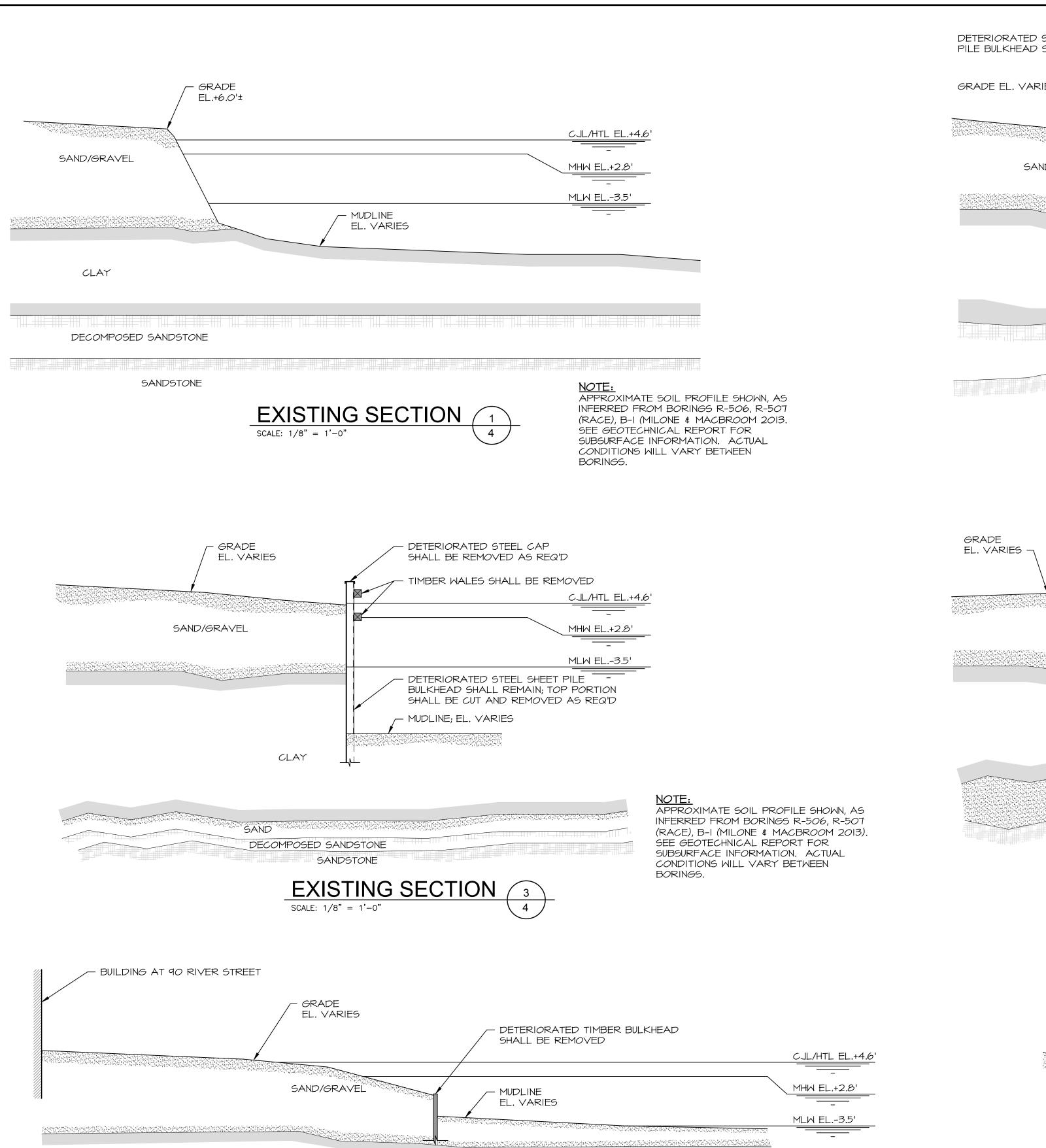








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NOTE: APPROXIMATE SOIL PROFILE SHOWN, AS

INFERRED FROM BORINGS R-509, R-510

ENVIRONMENTAL SERVICES CIRCA 1996 -

1998). SEE GEOTECHNICAL REPORT FOR

SUBSURFACE INFORMATION. ACTUAL

(RACE), MW-98-9 (CHARTER OAK

CONDITIONS WILL VARY BETWEEN

BORINGS.

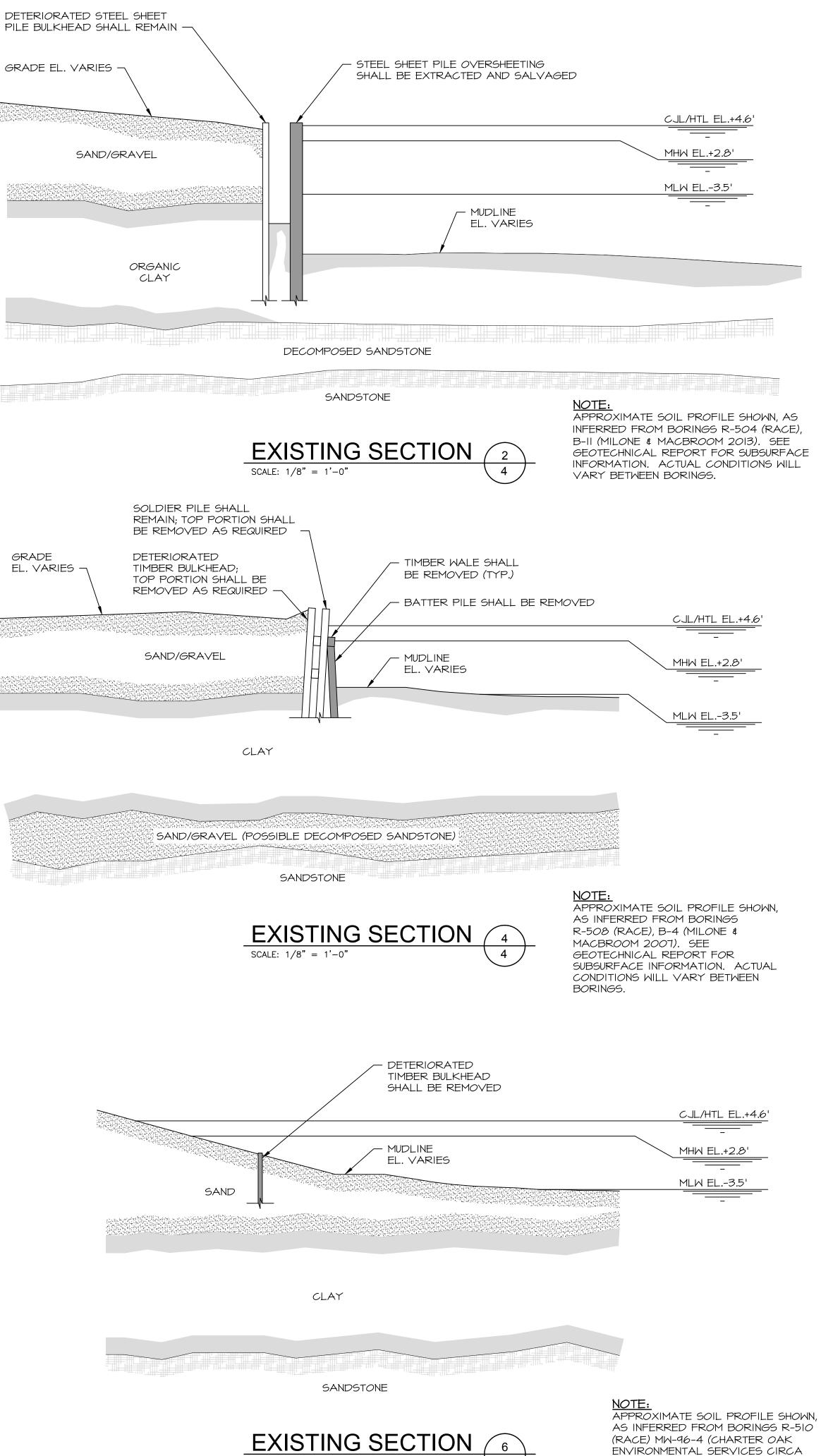
CLAY

DECOMPOSED SANDSTONE

SCALE: 1/8" = 1'-0"

SANDSTONE

EXISTING SECTION



SCALE: 1/8" = 1'-0"

RECEE

COASTAL ENGINEERING

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PREPARED FOR:

CITY OF NEW HAVEN
OFFICE OF ECONOMIC
DEVELOPMENT
165 CHURCH STREET
NEW HAVEN, CT 06510

PROJECT:

RIVER STREET
SHORELINE IMPROVEMENTS
RIVER STREET
NEW HAVEN, CT 06513

DRAWING:

1-6.DWG

1996 - 1998). SEE GEOTECHNICAL

INFORMATION. ACTUAL CONDITIONS

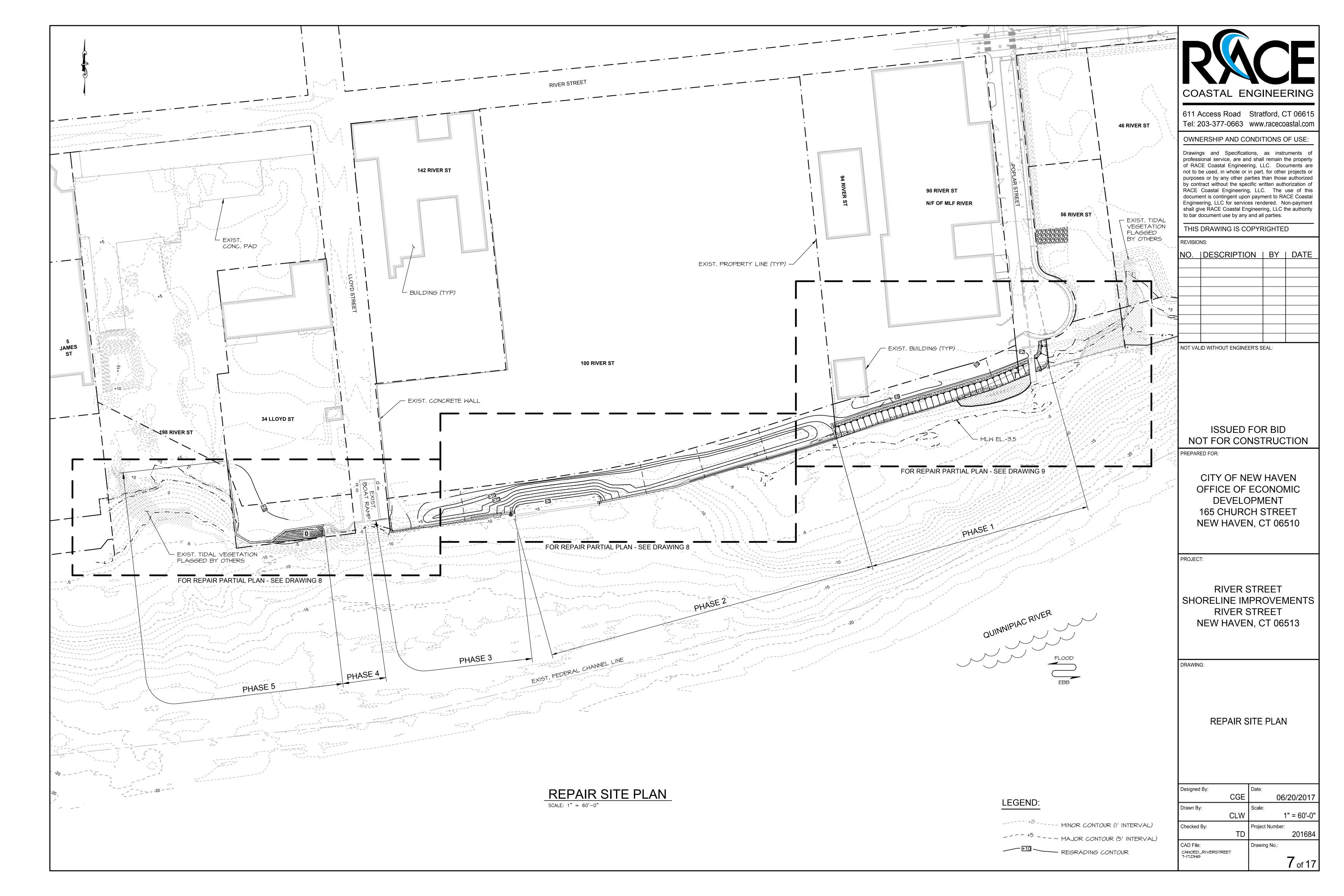
WILL VARY BETWEEN BORINGS.

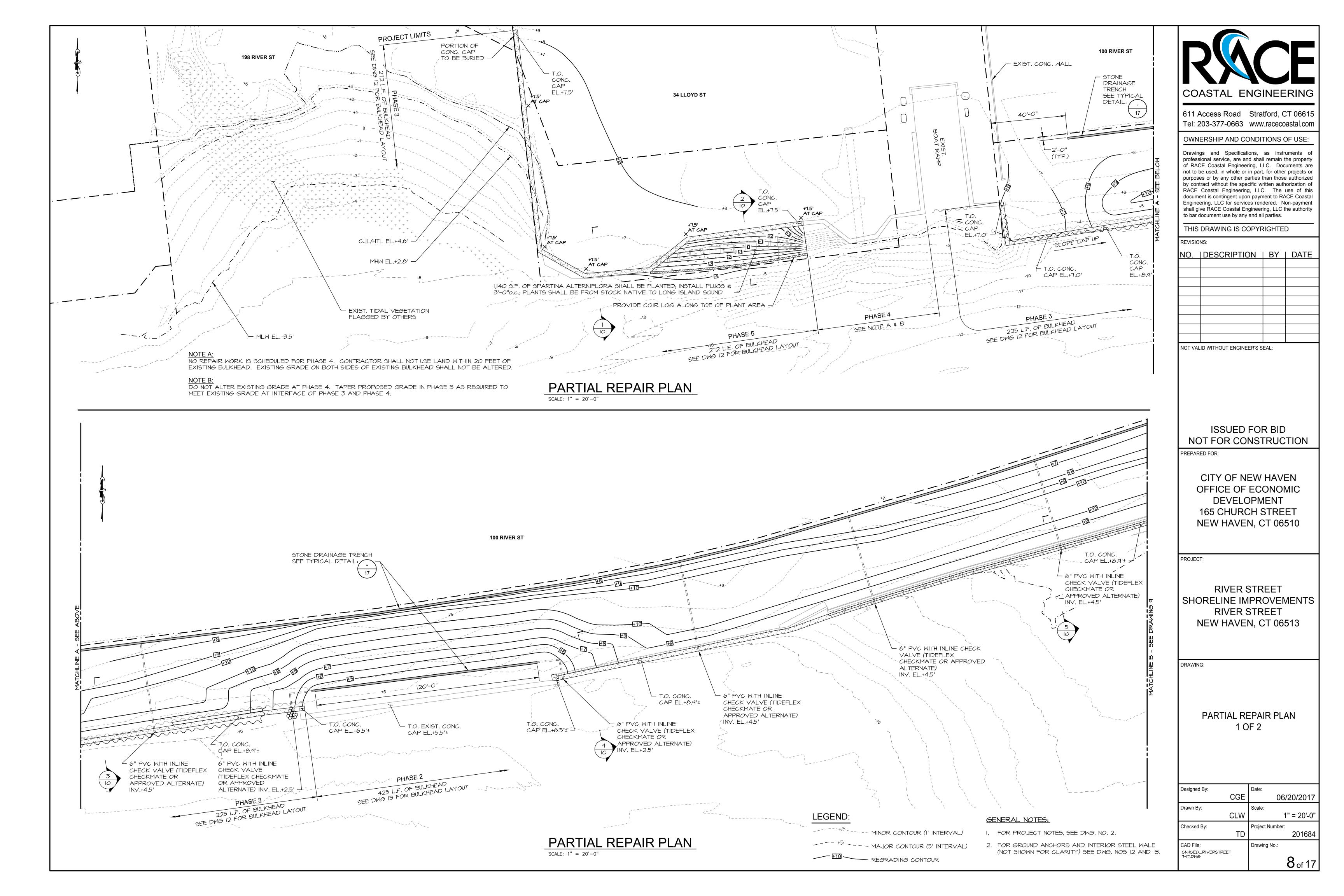
REPORT FOR SUBSURFACE

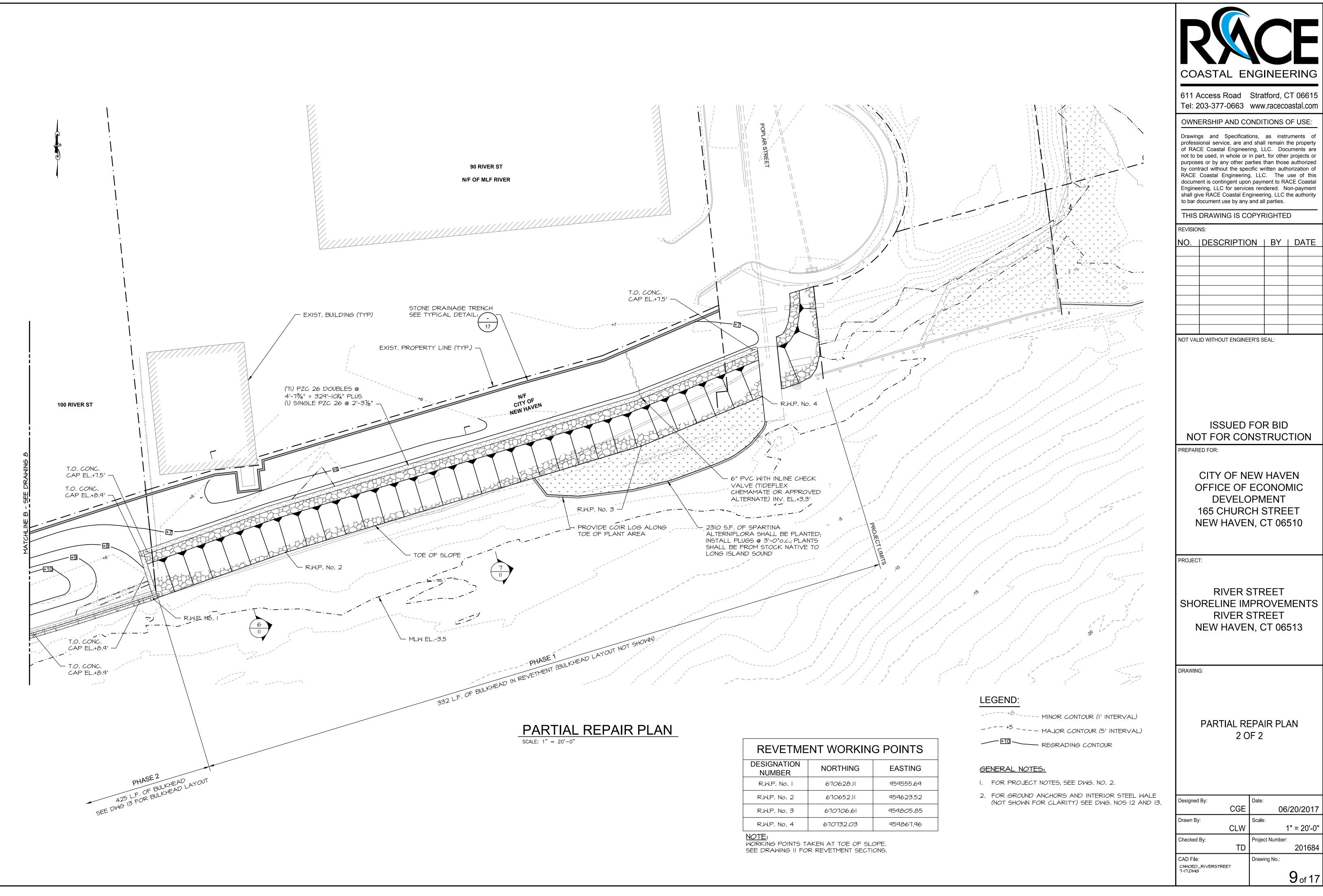
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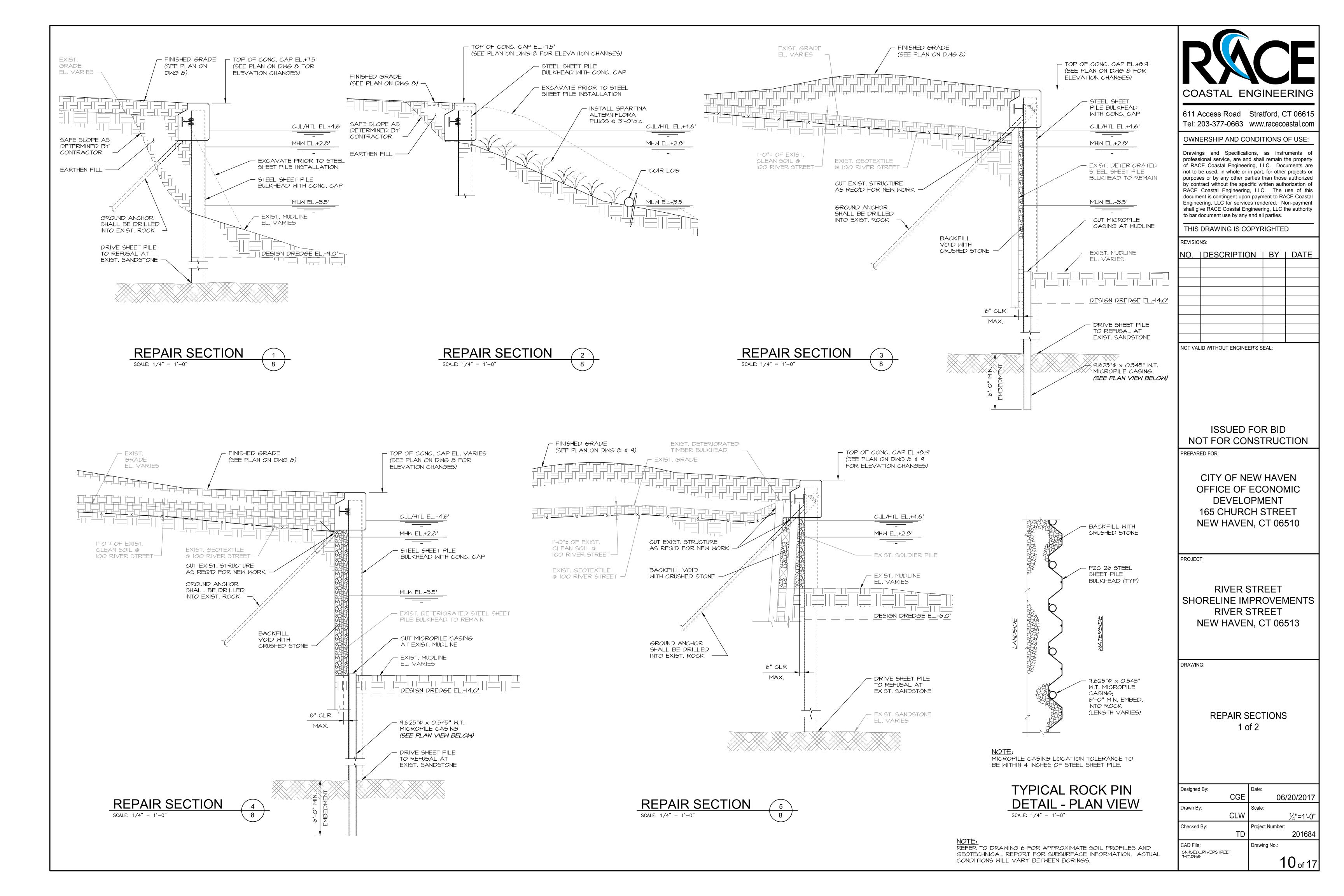
6 of 17

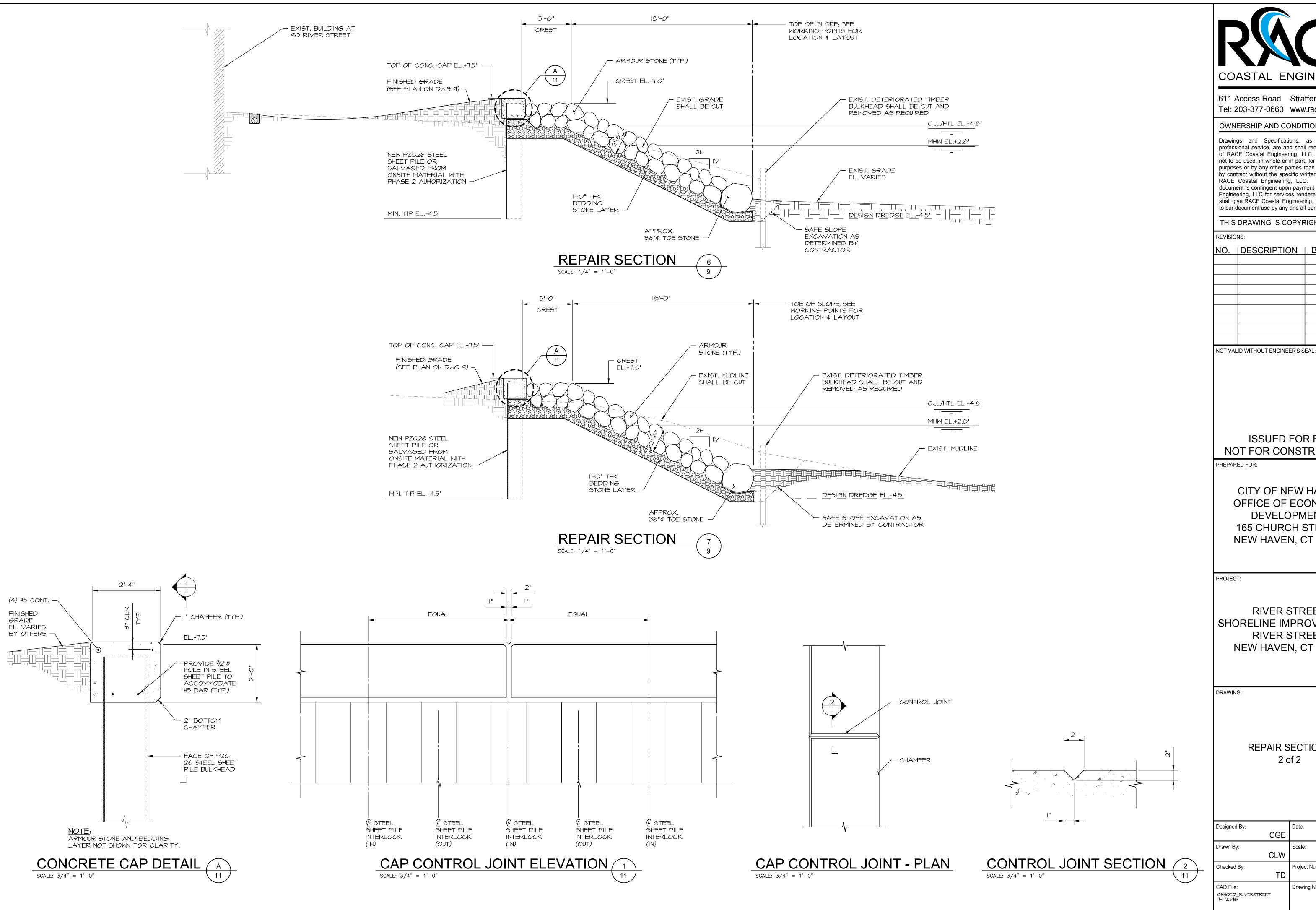






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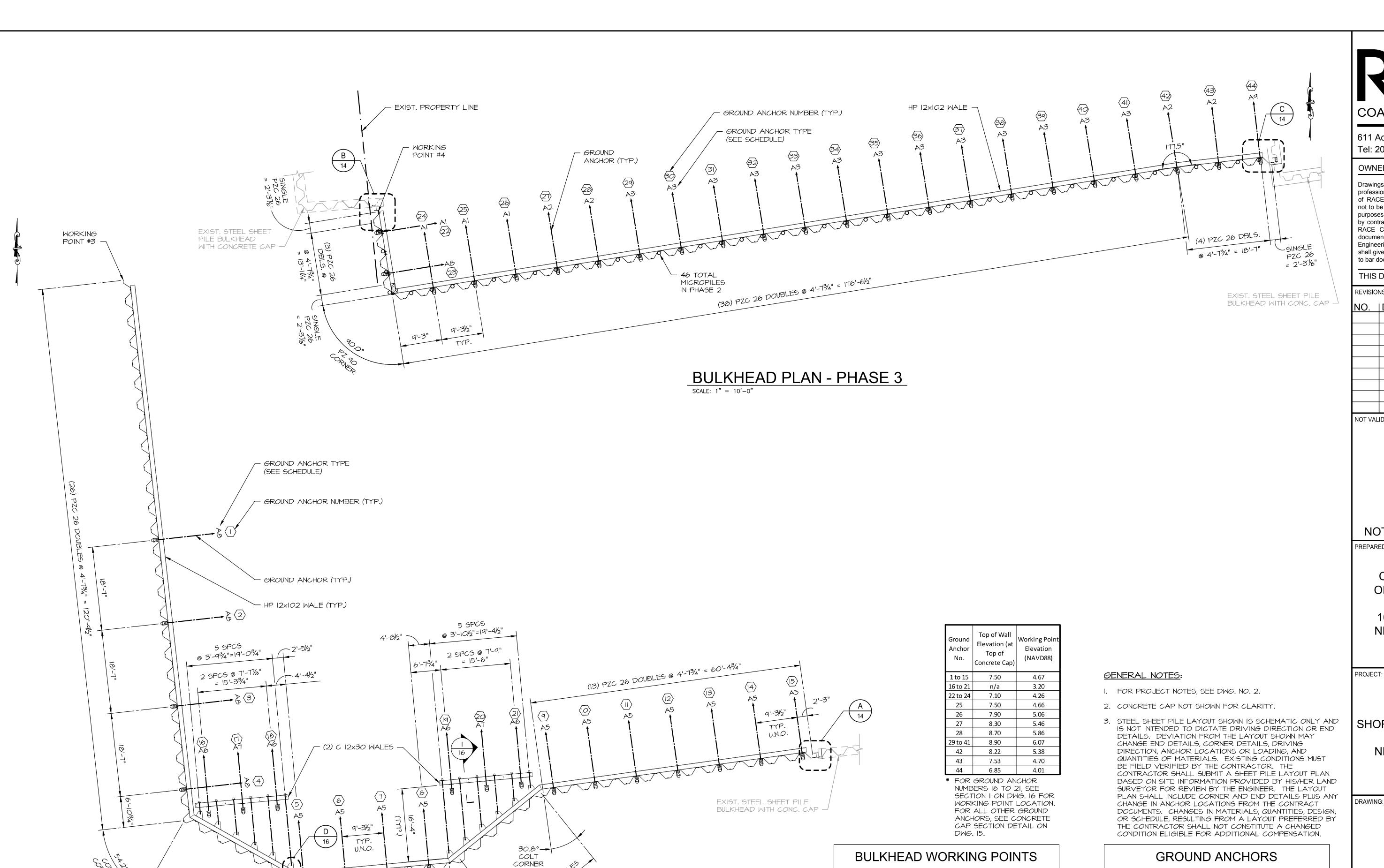
CITY OF NEW HAVEN OFFICE OF ECONOMIC **DEVELOPMENT** 165 CHURCH STREET NEW HAVEN, CT 06510

RIVER STREET SHORELINE IMPROVEMENTS RIVER STREET NEW HAVEN, CT 06513

REPAIR SECTIONS

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	CLW	AS NOTED
Checked By:		Project Number:
	TD	201684
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11 of 17



BULKHEAD WORKING POINTS					
DESIGNATION NUMBER	NORTHING	EASTING			
WORKING POINT #I	670463.61	958648.14			
WORKING POINT #2	670460.76	958615.68			
WORKING POINT #3	670594.63	958577.98			
WORKING POINT #4	670497.91	958840.23			
WORKING POINT #5	670479.56	958843.20			

BULKHEAD PLAN - PHASE 5 SCALE: 1" = 10'-0"

SINGLE PZC 26 = 2'-31/8"-

WORKING POINT #I

(7) PZC 26 DOUBLES

@ 4'-73/4" = 32'-6/4"

WORKING POINT #2 -

COLT

GROUND ANCHORS				
TYPE ANGLE DESIGN				
Al	45°	165 kips		
A2	45°	170 kips		
A3	45°	182 kips		
A4	45°	152 kips		
A5	45°	124 kips		
A6	45°	115 kips		
A7	45°	192 kips		
A8	45°	137 kips		
A9	45°	128 kips		



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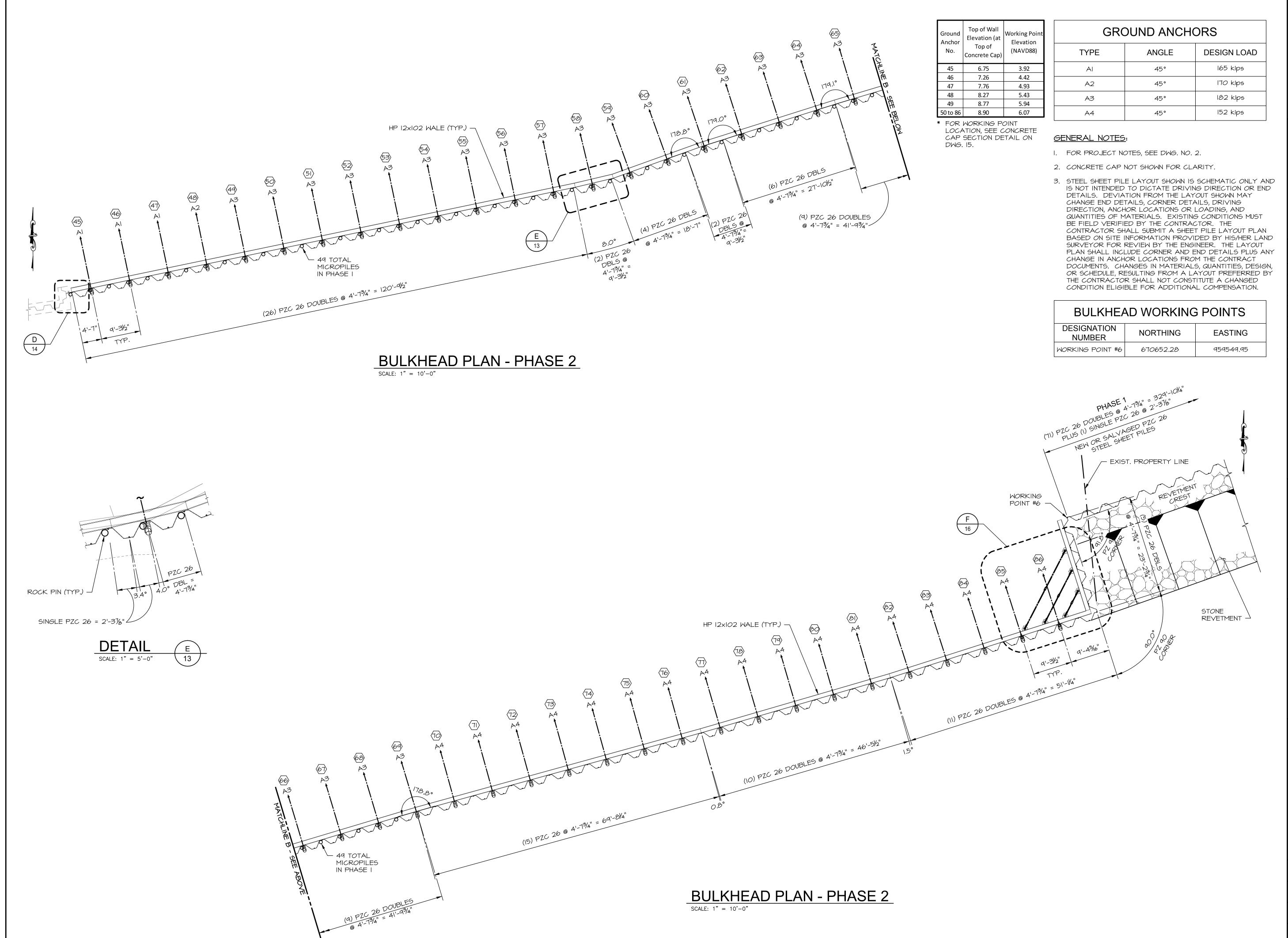
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BULKHEAD PLANS -SHEET 1 of 2

Designed By:		Date:
	CGE	06/20/2017
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NEW HAVEN, CT 06510

PROJECT

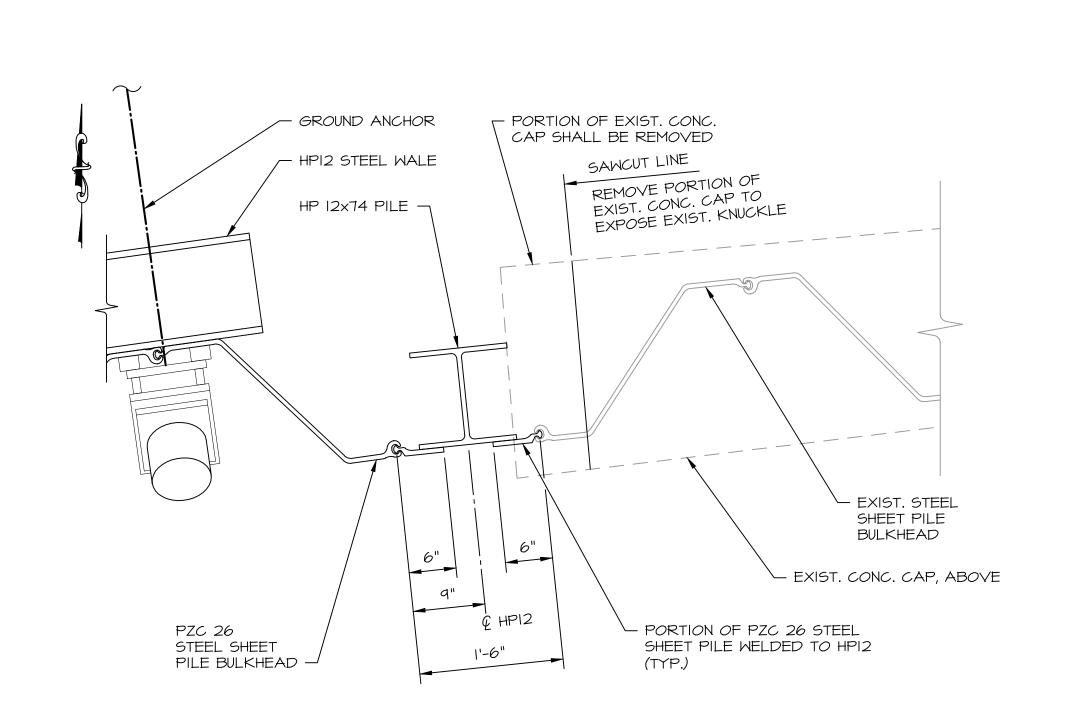
RIVER STREET
SHORELINE IMPROVEMENTS
RIVER STREET
NEW HAVEN, CT 06513

DRAWING

BULKHEAD PLANS -SHEET 2 of 2

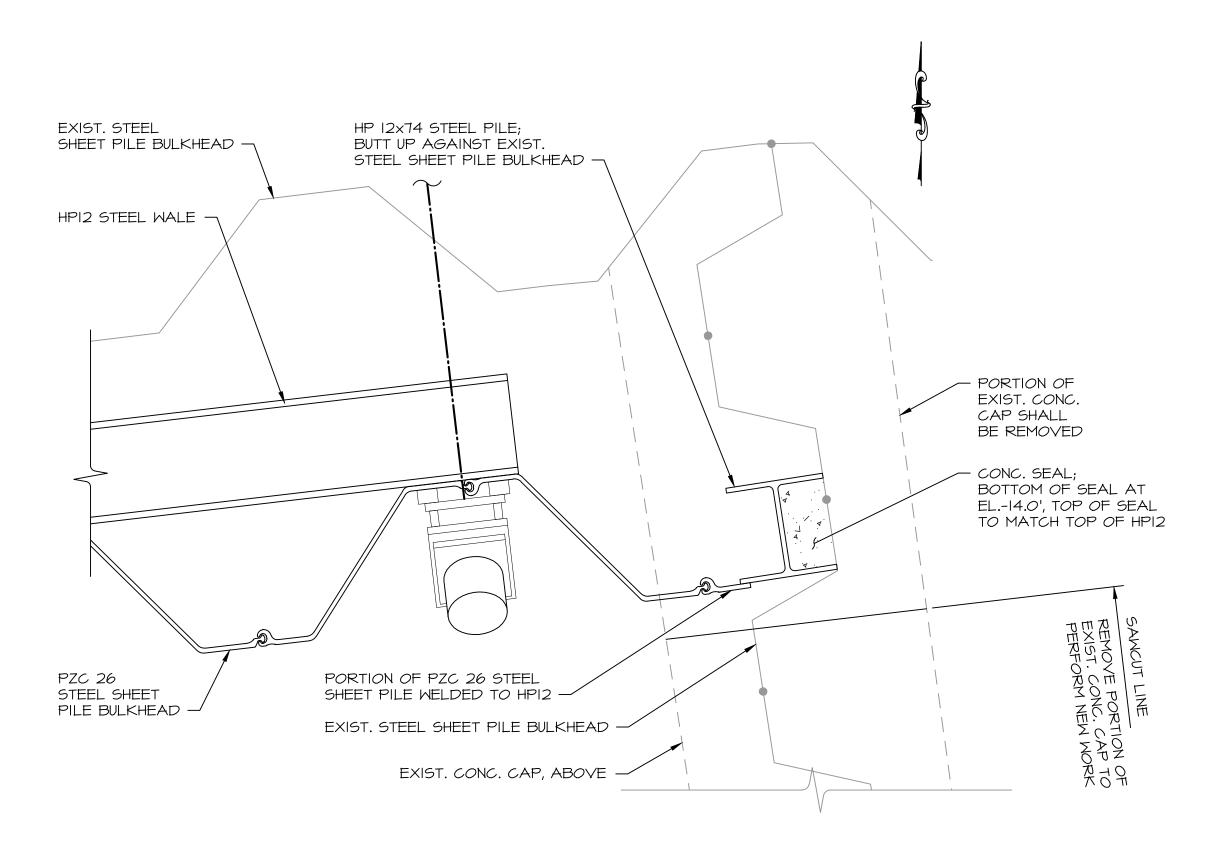
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	CGE	06/20/2017
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	TD	201684
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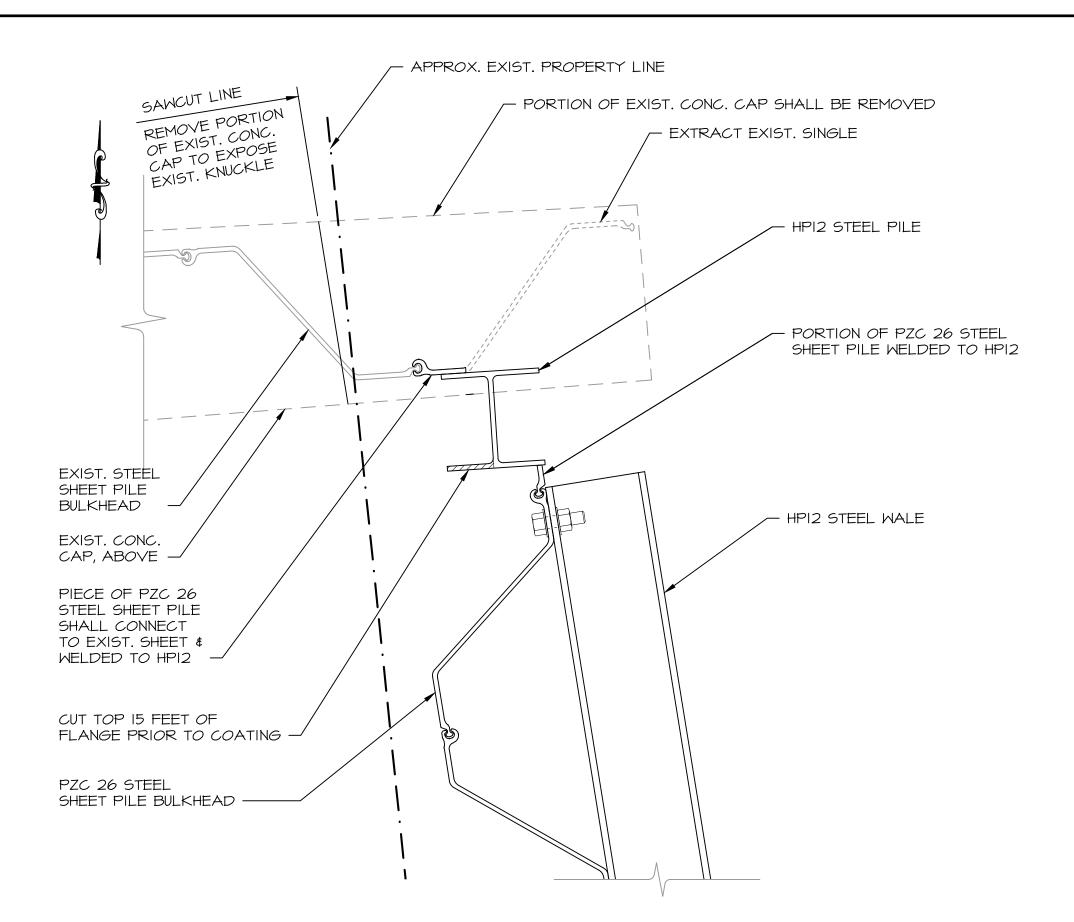
NOTE: CONCRETE CAP FOR NEW PZC 26 STEEL SHEET PILE BULKHEAD NOT SHOWN FOR CLARITY.





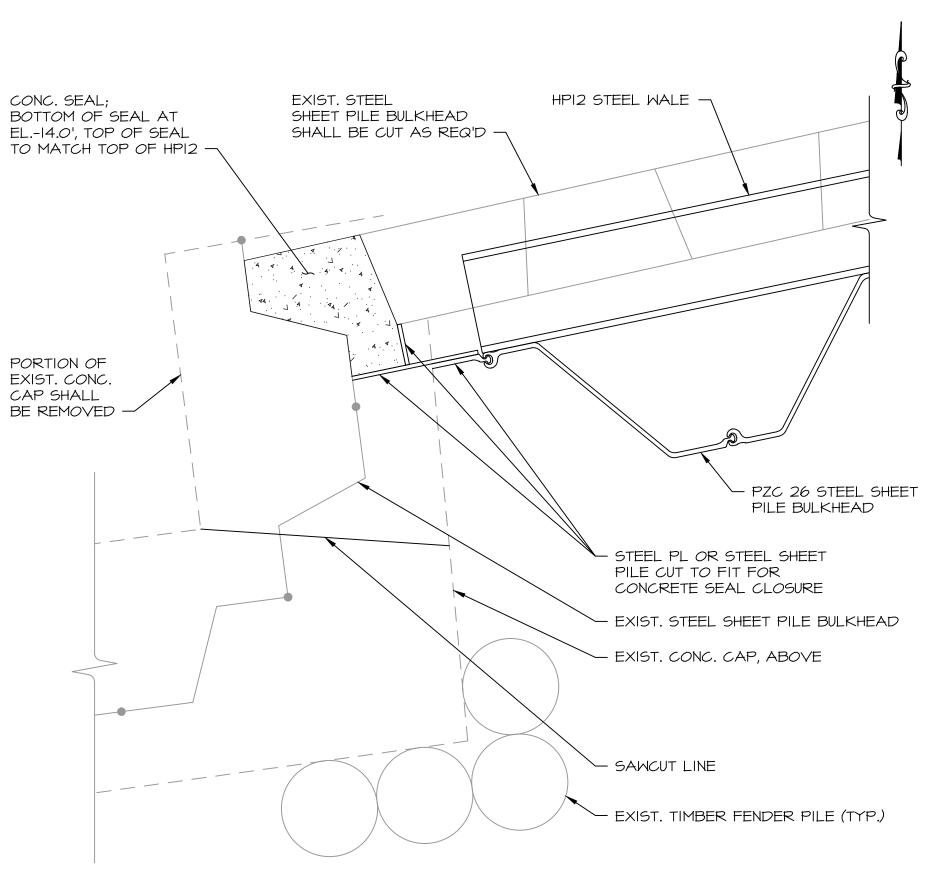
NOTE:
CONCRETE CAP FOR PZC 26 STEEL SHEET
PILE BULKHEAD NOT SHOWN FOR CLARITY.





NOTE: CONCRETE CAP FOR NEW PZC 26 STEEL SHEET PILE BULKHEAD NOT SHOWN FOR CLARITY.

CLOSURE DETAIL SCALE: 1" = 1'-0" B 12



NOTE: CONCRETE CAP FOR PZC 26 STEEL SHEET PILE BULKHEAD NOT SHOWN FOR CLARITY.

CLOSURE DETAIL	D
SCALE: $1'' = 1' - 0''$	13



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PROJECT:

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SHORELINE IMPROVEMENTS
RIVER STREET
NEW HAVEN, CT 06513

DRAWING:

BULKHEAD CLOSURE DETAILS

Designed By:		Date:
	CGE	06/20/2017
Drawn By:		Scale:
	CLW	1"=1'-0"
Checked By:		Project Number:
•	TD	201684
CAD File:		Drawing No.:
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14 of 17

3. LENGTHS OF HP SECTIONS, CORNER SECTIONS, AND CUT PORTIONS OF PZC STEEL SHEET PILE SHALL BE THE SAME LENGTH AS THE NEW STEEL SHEET PILE.

I. FOR PROJECT NOTES, SEE DWG. NO. 2.

REFERENCE ONLY. CLOSURE AND END DETAILS SHALL BE FIELD VERIFIED TO

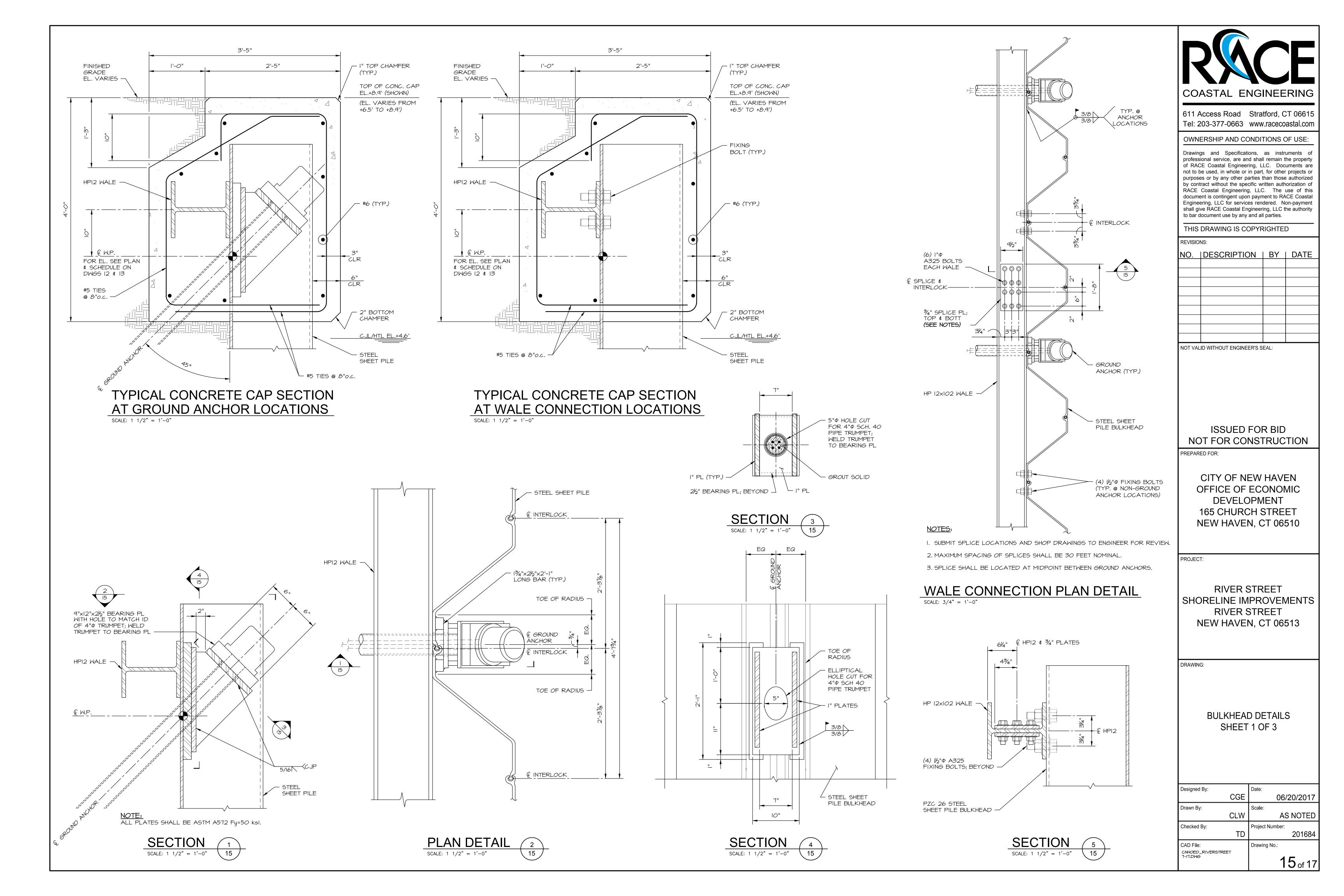
FIT UP TO EXISTING STRUCTURES AND GRADES. CONTRACTOR SHALL SUBMIT

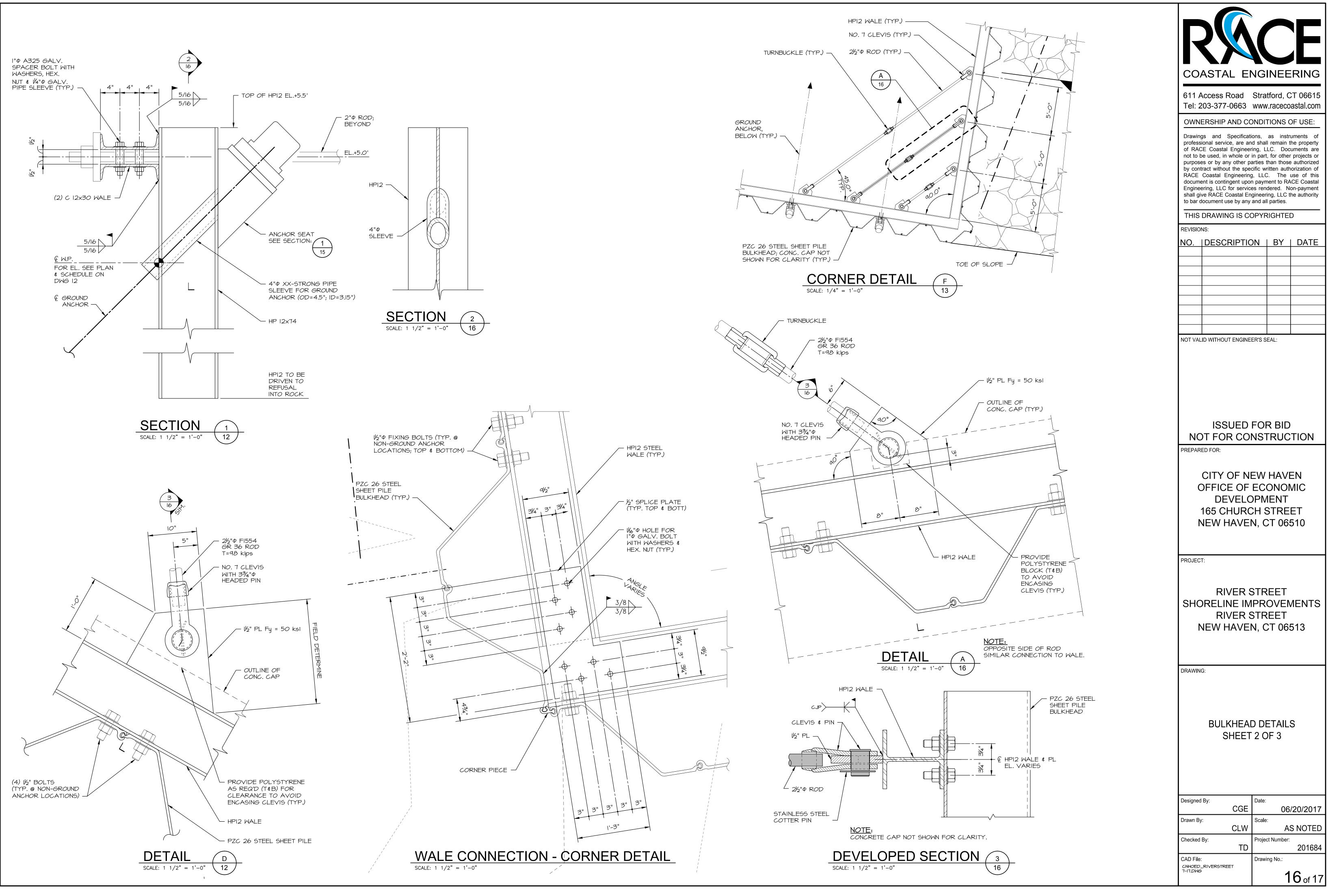
SHOP DRAWINGS FOR APPROVAL OF END DETAILS WITH ADEQUATE TOLERANCE AND ADJUSTMENT FOR FIT UP TO ACTUAL

2. CLOSURE DETAILS SHOWN ARE FOR

GENERAL NOTES:

FIELD CONDITIONS.





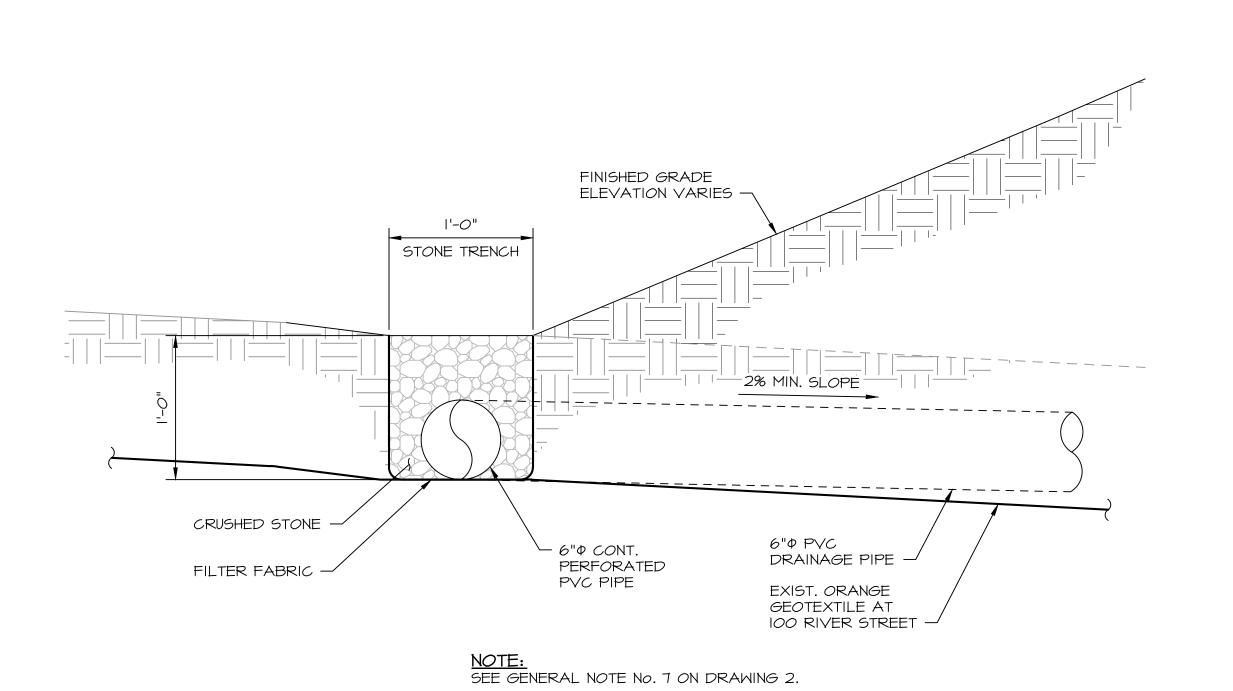


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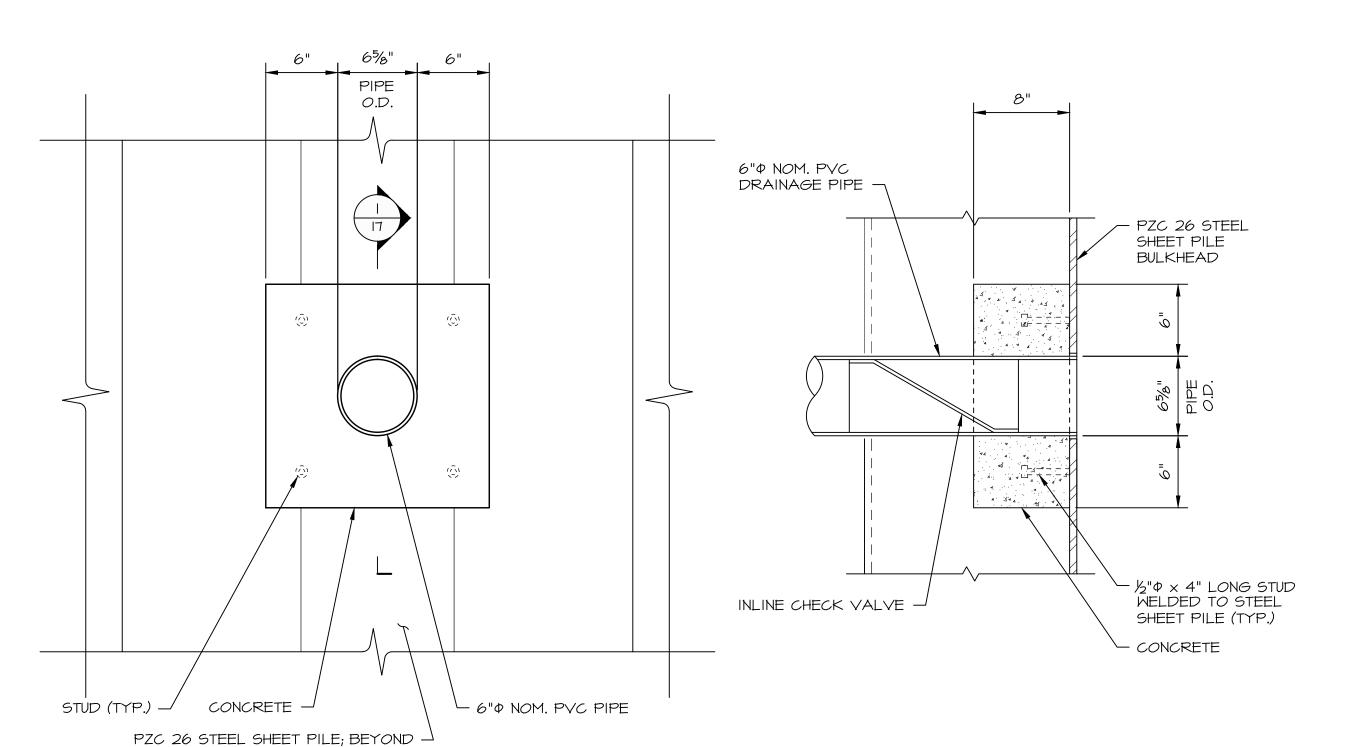
SHORELINE IMPROVEMENTS

Designed By:		Date:	
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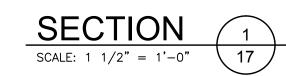
TEMOPORARY DRAINAGE TRENCH DETAIL

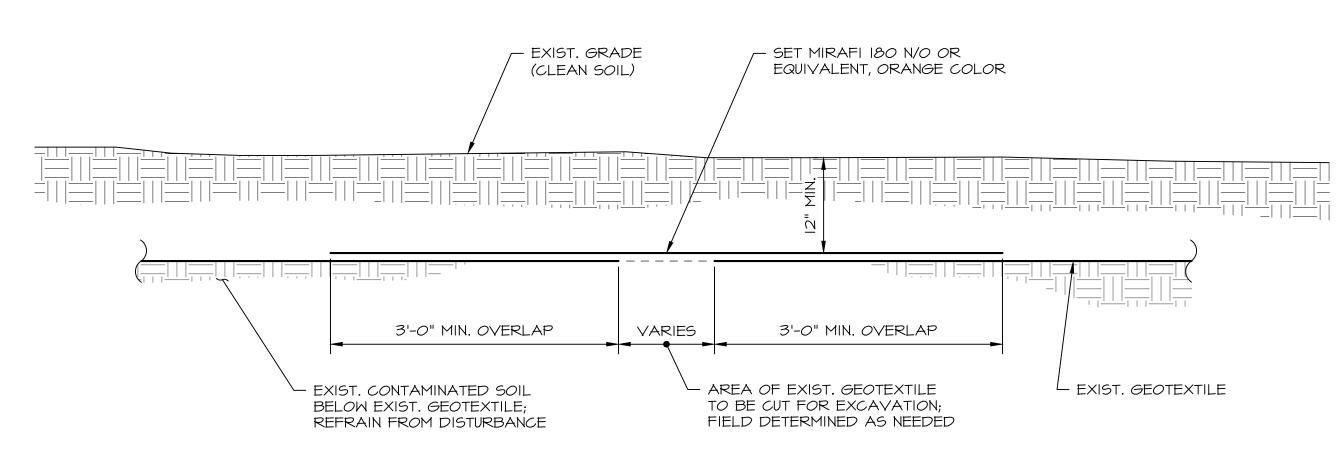
SCALE: 3/4" = 1'-0"



PIPE DRAIN ELEVATION

SCALE: 1 1/2" = 1'-0"





NOTES:

- I. ENVIRONMENTAL LAND USE RESTRICTION EXISTS OR HAS BEEN PROPOSED FOR 100 RIVER STREET. CONTRACTOR SHALL RECEIVE WRITTEN PERMISSION FROM THE CITY PRIOR TO ANY EXCAVATION, DEMOLITION, OR DRILLING WITH CONFIRMATION THAT CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION HAS PERMITTED EXCAVATION OR ANY OTHER FORM OF SUBGRADE WORK.
- 2. CONTRACTOR SHALL SEQUENCE WORK TO LIMIT THE AMOUNT OF DISTURBANCE OF ONSITE SOILS. WHERE DISTURBANCE CAN NOT BE AVOIDED, CONTRACTOR SHALL RESTORE GEOTEXTILE DEMARCATION AND CLEAN FILL SURFACE LAYER PER DETAIL.

GEOTEXTILE DEMARCATION PATCH

SCALE: 1" = 1'-0"



611 Access Road Stratford, CT 06615
Tel: 203-377-0663 www.racecoastal.com

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REVISIONS:

NO.	DESCRIPTION	BY	DATE

NOT VALID WITHOUT ENGINEER'S SEAL:

ISSUED FOR BID
NOT FOR CONSTRUCTION

PREPARED FOR:

CITY OF NEW HAVEN
OFFICE OF ECONOMIC
DEVELOPMENT
165 CHURCH STREET
NEW HAVEN, CT 06510

PROJECT:

RIVER STREET
SHORELINE IMPROVEMENTS
RIVER STREET
NEW HAVEN, CT 06513

DRAWING:

BULKHEAD DETAILS SHEET 3 OF 3

Designed By:		Date:
	CGE	06/20/2017
Drawn By:		Scale:
	CLW	AS NOTED
Checked By:		Project Number:
	TD	201684
CAD File:		Drawing No.:
CNHOED_RIVERSTRE	ET	17 of 17