

SOUTH - NORTH PROFILE  
SCALE: 1" = 60'

NOT FOR BID

95% PROGRESS SET  
NOT FOR CONSTRUCTION

**UNDERGROUND SERVICE ALERT**



Call: TOLL FREE  
1-800-227-2600  
OR  
811

TWO WORKING DAYS BEFORE YOU DIG

**BENCHMARK:**  
ELEVATIONS SHOWN HEREON ARE EXPRESSED IN THE U.S. SURVEY FEET AND ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88) AND DEFINED LOCALLY USING THE ORTHOMETRIC HEIGHT FOR CORS STATION EWPP. SITE BENCHMARK AT POINT NO. 7000 DERIVED FROM STATIC OBSERVATIONS. ELEVATION = 4587.05'

**BASIS OF BEARINGS:**  
BEARINGS SHOWN ON THIS MAP ARE REFERENCED TO THE CALIFORNIA COORDINATE SYSTEM, CCS83 (2011) EPOCH 2010.00, ZONE 05, DEFINED LOCALLY BY NGS PID'S EWPP, PS98, & P470 ACCORDING TO THE GEODETIC POSITIONS AS PUBLISHED BY NGS. ALL DISTANCES AND COORDINATES ARE REFERENCED TO CCS83 ZONE 05 GRID AND ARE EXPRESSED IN US SURVEY FOOT UNITS.



33161 Camino Capistrano, Suite D, San Juan Capistrano, CA 92675  
Phone: (949) 329.3639 - JSTMINC.COM

JONIS C. SMITH 058654 09/08/2023  
PROFESSIONAL ENGINEER R.C.E. No. DATE

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:  
SAN BERNARDINO COUNTY - PUBLIC WORKS  
SPECIAL DISTRICTS

ASSISTANT DIRECTOR	DATE

APPROVALS

PROJECT MANAGER	INITIAL	DATE
OPS. DIVISION MANAGER		
PM. DIVISION MANAGER		

**IMPROVEMENT PLANS**

LAKE GREGORY SITEWIDE SEDIMENT MANAGEMENT PROJECT  
SAN BERNARDINO COUNTY REGIONAL PARKS DEPARTMENT  
CRESTLINE, CALIFORNIA

EXISTING CONDITION: SOUTH-NORTH PROFILE

DWG NO.  
XX.XX.XXXX

FILE NO.  
XXX-XXX

SHEET 4 OF 16

C:\Users\WuT\OneDrive\Documents\Projects\1025 - Lake Gregory Sitewide Sediment Management Project\1025-SHT-3-4-LEX LIME CROSS SECTIONS.dwg 02/23/24 - 6:11pm Mu11 Tim



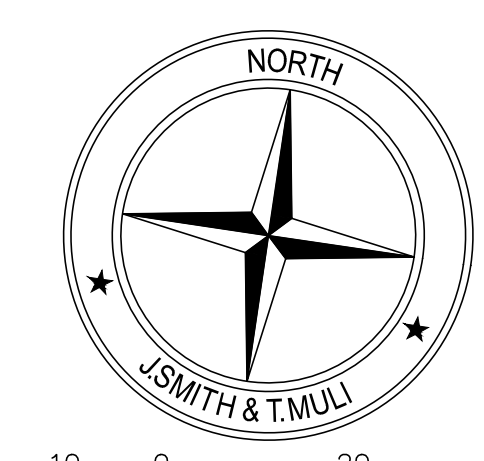


- LEGEND:**
- DREDGING BOUNDARY/ DAYLIGHT LINE
  - CUTOFF WALL LOCATION
  - NO SWIM/NO BOAT BOUY LINE
  - NO DIVING SIGN

- CONSTRUCTION NOTES**
- ① FURNISH AND INSTALL WHITE SAND BEACH FILL MATERIAL PER PLAN AND SPECIFICATIONS
  - ② CONSTRUCT REINFORCED CONCRETE CUTOFF WALL PER PLAN AND DETAIL 19 ON SHEET 13
  - ③ FURNISH AND INSTALL SIGN PER COUNTY OF SAN BERNARDINO ENVIRONMENTAL HEALTH SCIENCES DEPARTMENT OF PUBLIC HELATH CONSTRUCTION GUIDE AND DETAIL 13 ON SHT 16

- NOTES:**
1. THE LOCATIONS OF EXISTING UTILITIES AND SURFACE FEATURES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND DOCUMENT THE LOCATIONS OF EXISTING UTILITIES AND SURFACE FEATURES IN THE VICINITY OF THE WORK BEFORE COMMENCING EARTHWORK.
  2. WATER SURFACE ELEVATION SHOWN ON PLANS IS APPROXIMATE. CONTRACTOR SHALL VERIFY WATER SURFACE ELEVATION BEFORE COMMENCING EARTHWORK.
  3. AERIAL IMAGERY SHOWN ON PLANS MAY VARY FROM CURRENT EXISTING CONDITIONS AND TOPOGRAPHIC INFORMATION.
  4. CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING SURFACE IMPROVEMENTS AND UTILITIES.

MATCHLINE - SEE SHEET 6



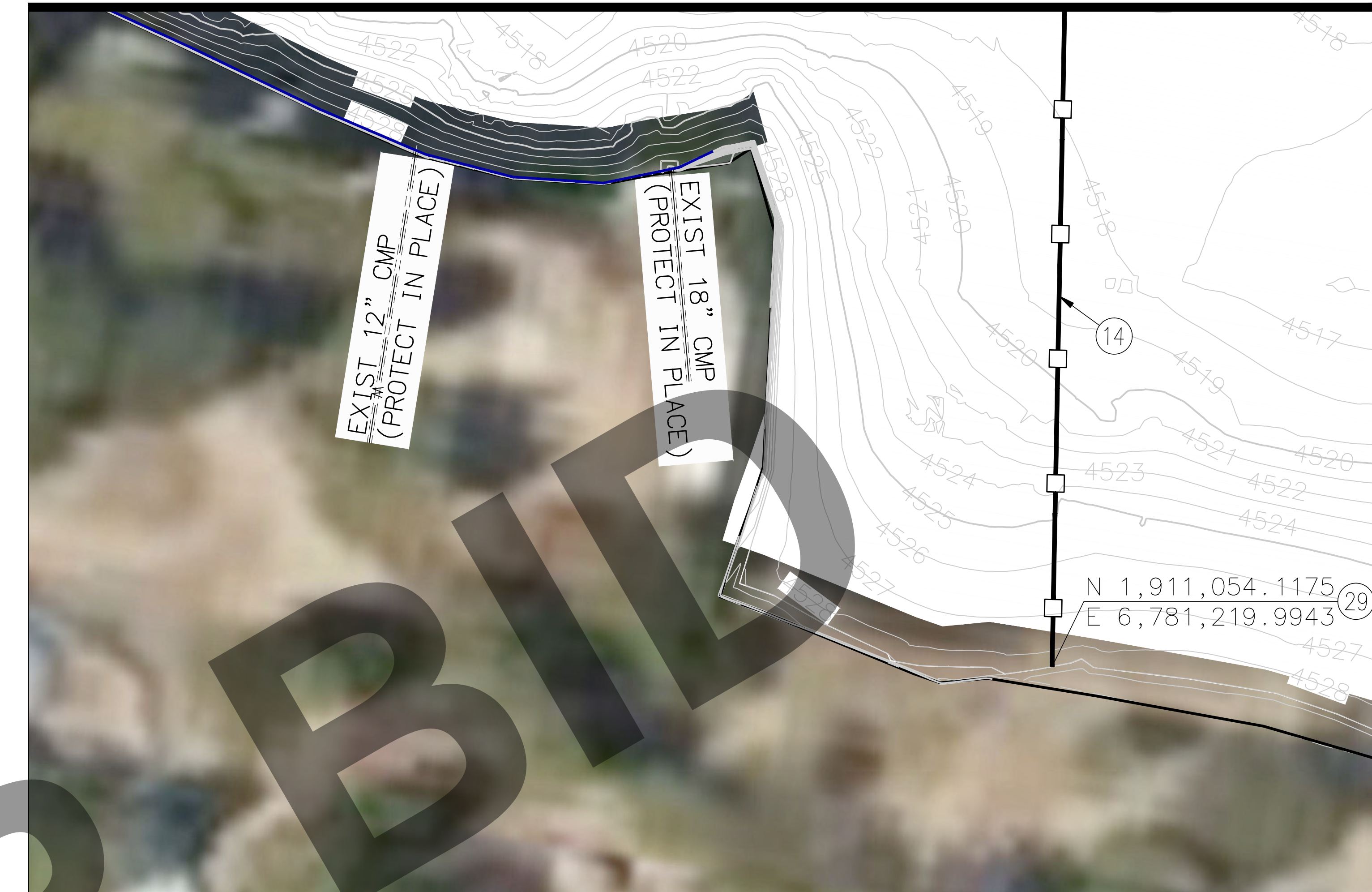
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C:\Users\WJ11\OneDrive\Documents\Projects\1025 - Lake Gregory Sitewide Sediment Management - Project\1025-SHT-5-FR GRADING.dwg 02/23/24 - 7:16pm Mulli, Tim



MATCHLINE - SEE LEFT



EARTHWORK QUANTITIES (CUBIC YARDS)	
CUT	68,429
FILL	8,932
NET (CUT)	59,497

**LEGEND:**

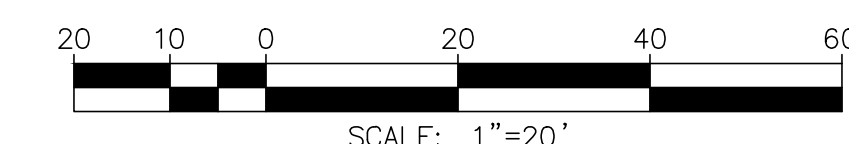
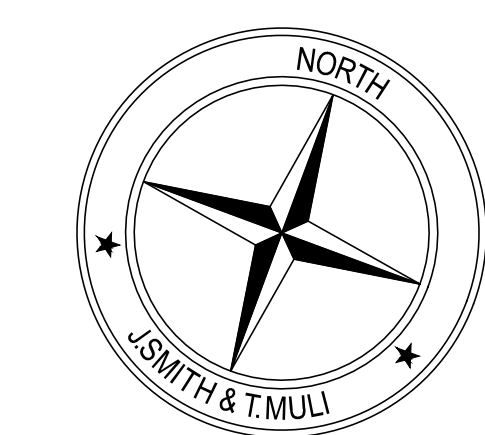
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**CONSTRUCTION NOTES**

- ① FURNISH AND INSTALL WHITE SAND BEACH FILL MATERIAL PER PLAN AND SPECIFICATIONS
- ② CONSTRUCT REINFORCED CONCRETE CUTOFF WALL PER PLAN AND DETAIL 19 ON SHEET 13
- ④ FURNISH AND INSTALL MARINE RESCUE 3 STRAND 3/4" BLUE/WHITE POLYPRO ROPE BOUY LINE WITH 5"x9" ORANGE/WHITE LLF590 HANDI-LOCK FLOATS AT 5'-7" SPACING. 423 MARKER BOUY EVERY 200 FEET.
- ⑤ WATER PARK GRADING PER PLAN AND DETAIL ON SHEET 13
- ⑥ RELOCATE WATER PARK APPARATUS TO LOCATION SHOWN PER DIRECTION OF THE DISTRICT ENGINEER
- ⑨ FURNISH AND INSTALL BOUY LINE ANCHOR PER DETAIL 30 ON SHEET 15

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3. AERIAL IMAGERY SHOWN ON PLANS MAY VARY FROM CURRENT EXISTING CONDITIONS AND TOPOGRAPHIC INFORMATION.
4. CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING SURFACE IMPROVEMENTS AND UTILITIES.
5. ACCESS SHOWN SUBJECT TO CHANGE BASED ON CURRENT WATER SURFACE ELEVATION. CONTRACTOR TO VERIFY.



95% PROGRESS SET  
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MATCHLINE - SEE SHEET 5

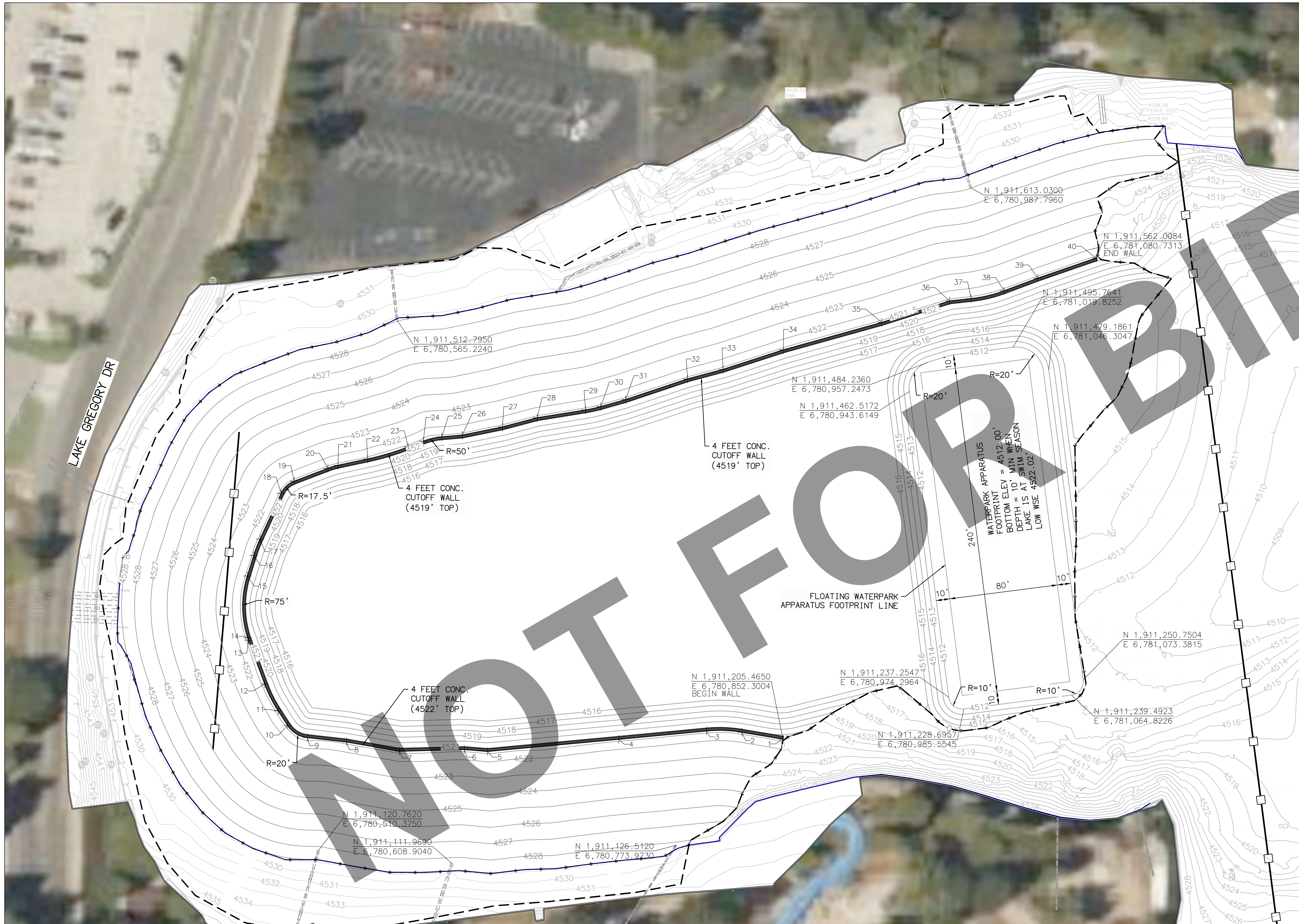
MATCHLINE - SEE RIGHT

MATCHLINE - SEE RIGHT

**SWIM BEACH**

<p>UNDERGROUND SERVICE ALERT Call: TOLL FREE 1-800-227-2600 OR 811 TWO WORKING DAYS BEFORE YOU DIG</p>	<p><b>BENCHMARK:</b> ELEVATIONS SHOWN HEREON ARE EXPRESSED IN THE U.S. SURVEY FEET AND ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88) AND DEFINED LOCALLY USING THE ORTHOMETRIC HEIGHT FOR CORS STATION EWPP. SITE BENCHMARK AT POINT NO. 7000 DERIVED FROM STATIC OBSERVATIONS. ELEVATION = 4587.05'</p>	<p><b>BASIS OF BEARINGS:</b> BEARINGS SHOWN ON THIS MAP ARE REFERENCED TO THE CALIFORNIA COORDINATE SYSTEM, CCS83 (2011) EPOCH 2010.00, ZONE 03, DEFINED LOCALLY BY NGS P1D'S EWPP, PS98, &amp; P470 ACCORDING TO THE GEODETIC POSITIONS AS PUBLISHED BY NGS. ALL DISTANCES AND COORDINATES ARE REFERENCED TO CCS83 ZONE 03 GRID AND ARE EXPRESSED IN US SURVEY FOOT UNITS.</p>	<p><b>J. SMITH &amp; T. MULI</b> 33161 Camino Capistrano, Suite D, San Juan Capistrano, CA 92675 Phone: (949) 329.3639 • JSMTHINC.COM JONIS C. SMITH 068654 09/08/2023 PROFESSIONAL ENGINEER R.C.E. No. DATE</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>MARK</th> <th>DATE</th> <th>INITIAL</th> <th>DESCRIPTION</th> <th>APPR. DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	MARK	DATE	INITIAL	DESCRIPTION	APPR. DATE																<p>PLANS APPROVED BY: SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS</p> <table border="1"> <thead> <tr> <th>ASSISTANT DIRECTOR</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> </tbody> </table> <p>APPROVALS</p> <table border="1"> <thead> <tr> <th>PROJECT MANAGER</th> <th>INITIAL</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	ASSISTANT DIRECTOR	DATE			PROJECT MANAGER	INITIAL	DATE										<p>IMPROVEMENT PLANS</p> <p>LAKE GREGORY SITEWIDE SEDIMENT MANAGEMENT PROJECT SAN BERNARDINO COUNTY REGIONAL PARKS DEPARTMENT CRESTLINE, CALIFORNIA</p> <p>PROPOSED SWIM BEACH GRADING</p>	<p>DWG. NO. XX.XX.XXXX</p> <p>FILE NO. XXX-XXX</p> <p>SHEET 6 OF 16</p>
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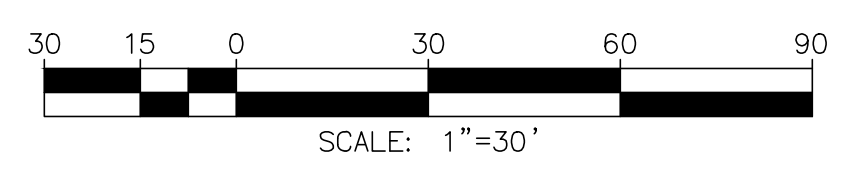
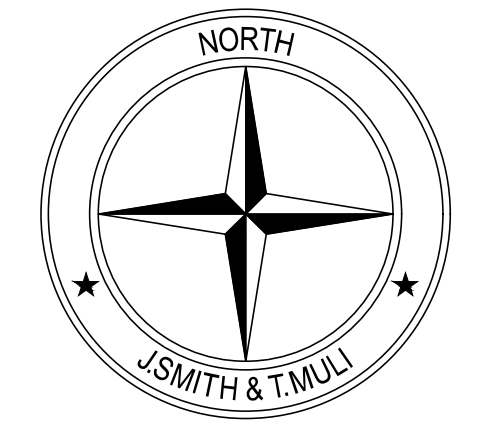




POINT TABLE			
POINT #	NORTHING	EASTING	ELEVATION
1	1911205.4650	6780852.3004	4522.00
2	1911210.3421	6780822.0216	4522.00
3	1911211.0890	6780795.8798	4522.00
4	1911204.4353	6780731.2403	4522.00
5	1911194.7809	6780634.4630	4522.00
6	1911196.0642	6780617.3299	4522.00
7	1911194.4635	6780569.5155	4522.00
8	1911201.0141	6780530.4133	4522.00
9	1911204.0001	6780501.6025	4522.00
10	1911212.8801	6780486.9699	4522.00
11	1911223.5382	6780479.9386	4522.00
12	1911243.2366	6780469.8745	4522.00
13	1911275.5550	6780457.6539	4522.00
14	1911277.2011	6780457.1022	4522.00
15	1911322.8775	6780456.4676	4522.00
16	1911338.0384	6780461.0838	4522.00
17	1911350.1258	6780465.6361	4522.00
18	1911383.9309	6780480.9282	4522.00
19	1911393.0156	6780490.4971	4522.00
20	1911402.7007	6780515.2540	4522.00
21	1911404.9510	6780522.6440	4522.00
22	1911409.8086	6780544.5467	4522.00
23	1911418.8876	6780574.3058	4522.00
24	1911423.2784	6780585.5058	4522.00
25	1911426.5121	6780599.1144	4522.00
26	1911427.9142	6780614.1552	4522.00
27	1911434.1922	6780643.8018	4522.00
28	1911441.1302	6780669.3169	4522.00
29	1911447.1595	6780704.9821	4522.00
30	1911449.7145	6780716.1437	4522.00
31	1911455.0294	6780734.4467	4522.00
32	1911470.6070	6780779.9549	4522.00
33	1911477.7984	6780806.0936	4522.00
34	1911492.5591	6780850.5251	4522.00
35	1911513.2978	6780922.9278	4522.00
36	1911529.5269	6780972.8379	4522.00
37	1911531.3624	6780988.6757	4522.00
38	1911537.3208	6781012.9514	4522.00
39	1911546.8512	6781037.8177	4522.00
40	1911562.0084	6781080.7313	4522.00

### SWIM BEACH - HORIZONTAL CONTROL

SCALE: 1"=30'

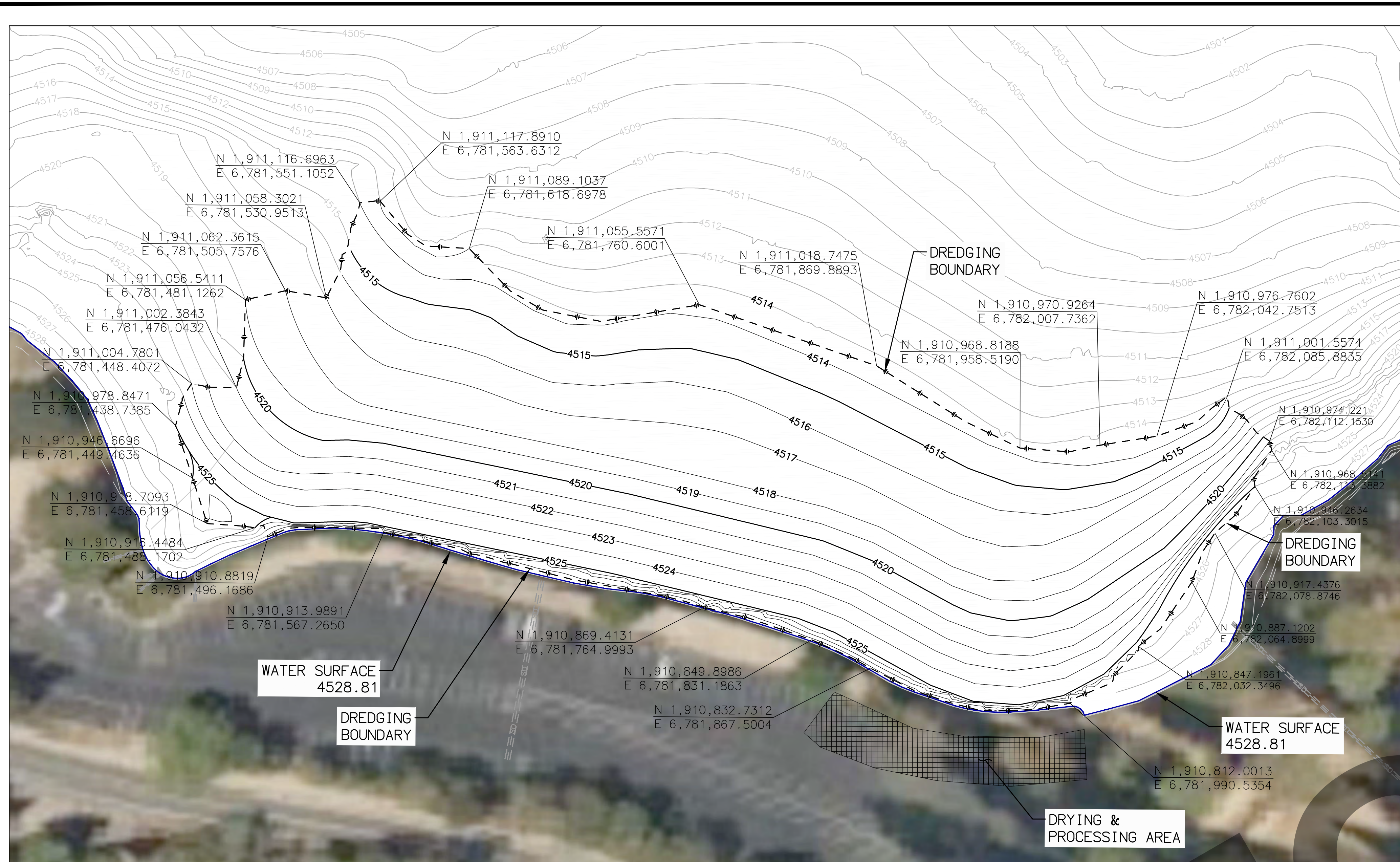


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### SOUTH BEACH

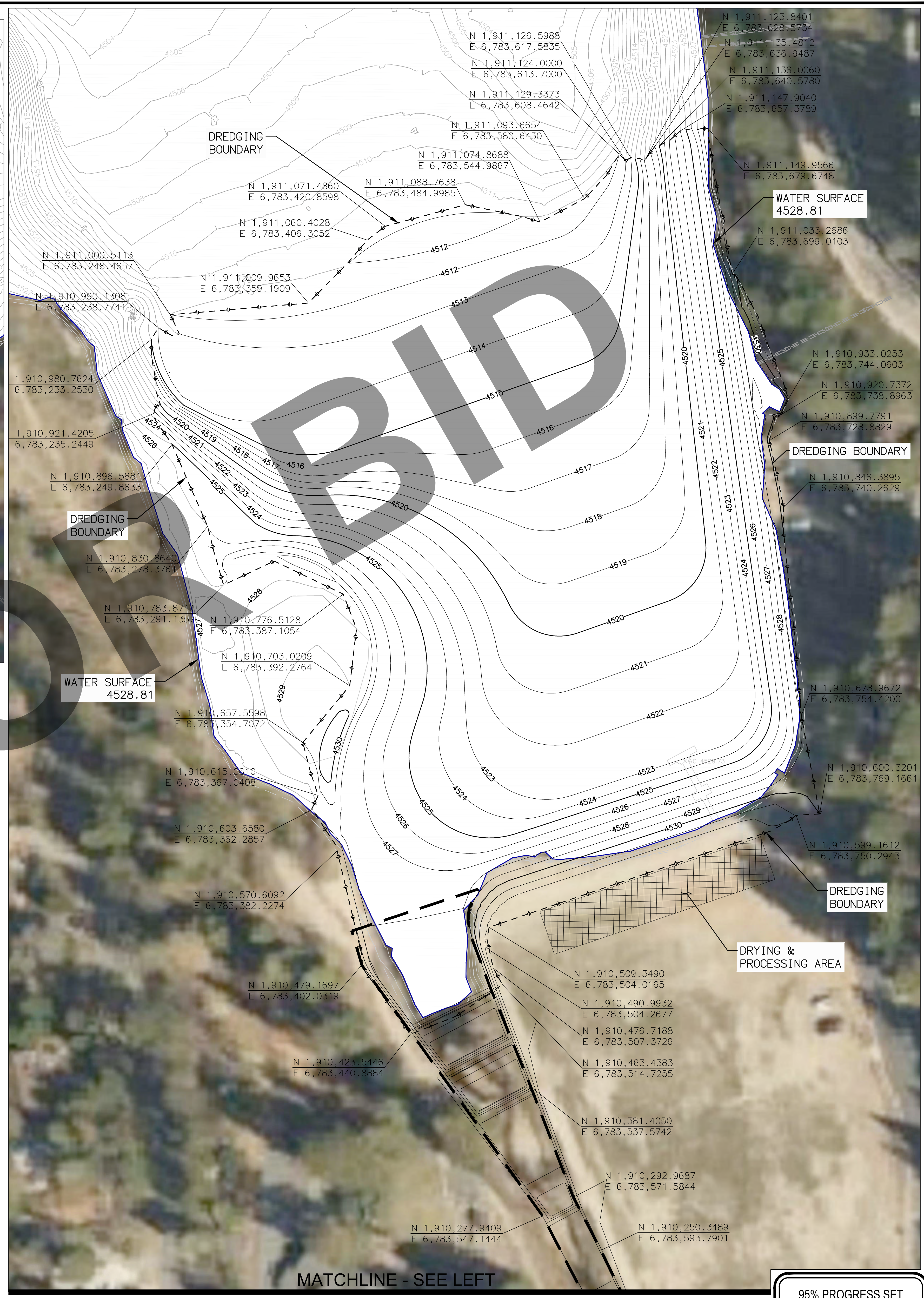
SCALE: 1"=40'

MATCHLINE - SEE RIGHT



### SAN MORITZ CHANNEL/ BASINS

SCALE: 1"=40'



### SOUTH LAKE AND SAN MORITZ CHANNEL/BASINS

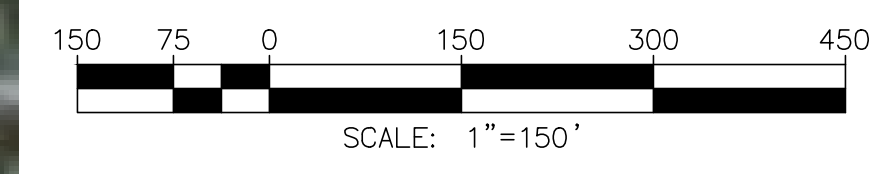
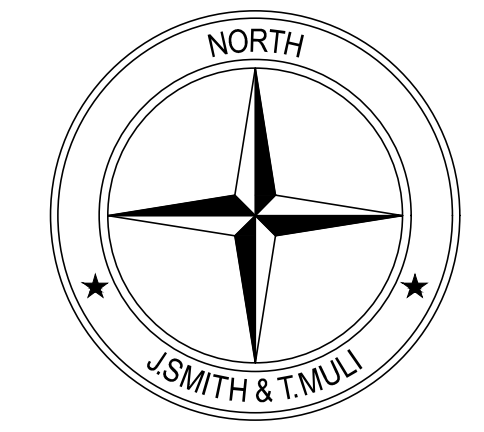
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BEARINGS SHOWN ON THIS MAP ARE REFERENCED TO THE CALIFORNIA COORDINATE SYSTEM, CCS83 (2011) EPOCH 2010.00, ZONE 05, DEFINED LOCALLY BY NGS PID'S EWPP, PS98, & P470 ACCORDING TO THE GEODETIC POSITIONS AS PUBLISHED BY NGS. ALL DISTANCES AND COORDINATES ARE REFERENCED TO CCS83 ZONE 05 GRID AND ARE EXPRESSED IN US SURVEY FOOT UNITS.

**J. SMITH & T. MULI**  
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Phone: (949) 329.3639 • JSMINC.COM  
JONIS C. SMITH 058654 09/08/2023  
PROFESSIONAL ENGINEER R.C.E. No. DATE

MARK	DATE	INITIAL	DESCRIPTION	APPR. DATE

PLANS APPROVED BY:  
SAN BERNARDINO COUNTY - PUBLIC WORKS  
SPECIAL DISTRICTS

APPROVALS	ASSISTANT DIRECTOR	DATE

**IMPROVEMENT PLANS**  
LAKE GREGORY SITEWIDE SEDIMENT MANAGEMENT PROJECT  
SAN BERNARDINO COUNTY REGIONAL PARKS DEPARTMENT  
CRESTLINE, CALIFORNIA  
INLETS SHEET INDEX AND EXISTING LAKE INLETS LAYOUT

DWG NO. XX.XX.XXXX  
FILE NO. XXX-XXX  
SHEET 9 OF 16

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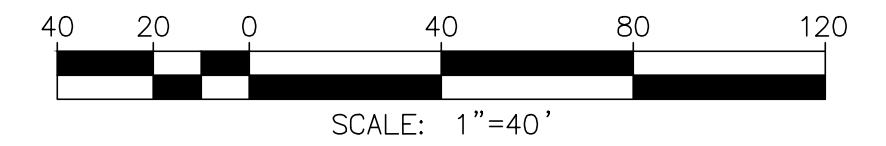
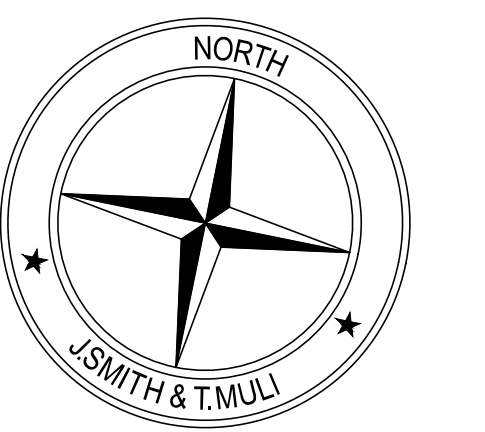


**CONSTRUCTION NOTES**

- ⑫ CONSTRUCT REINFORCED CONCRETE CUTOFF WALL PER PLAN AND DETAIL 19 ON SHEET 13
- ⑬ SAWCUT CMP AT PIPE PENETRATION POINT. INSTALL TYPE 2 STRAIGHT CONCRETE HEADWALL PER DETAIL 18 ON SHEET 13
- ⑭ SAWCUT EXISTING CMP SECTION, AND INSTALL TYPE 2 STRAIGHT CONCRETE HEADWALL PER DETAIL ON SHEET 13
- ⑮ CONSTRUCT 10'X10' RIPRAP ENERGY DISSIPATOR PER PLAN AND DETAIL 20 ON SHEET 14



**WEST BASIN AND WEST BEACH SIDE**



95% PROGRESS SET  
NOT FOR CONSTRUCTION

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**BENCHMARK:**  
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PROFESSIONAL ENGINEER R.C.E. No. DATE

REVISIONS			
MARK	DATE	INITIAL	DESCRIPTION

PLANS APPROVED BY:  
**SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS**

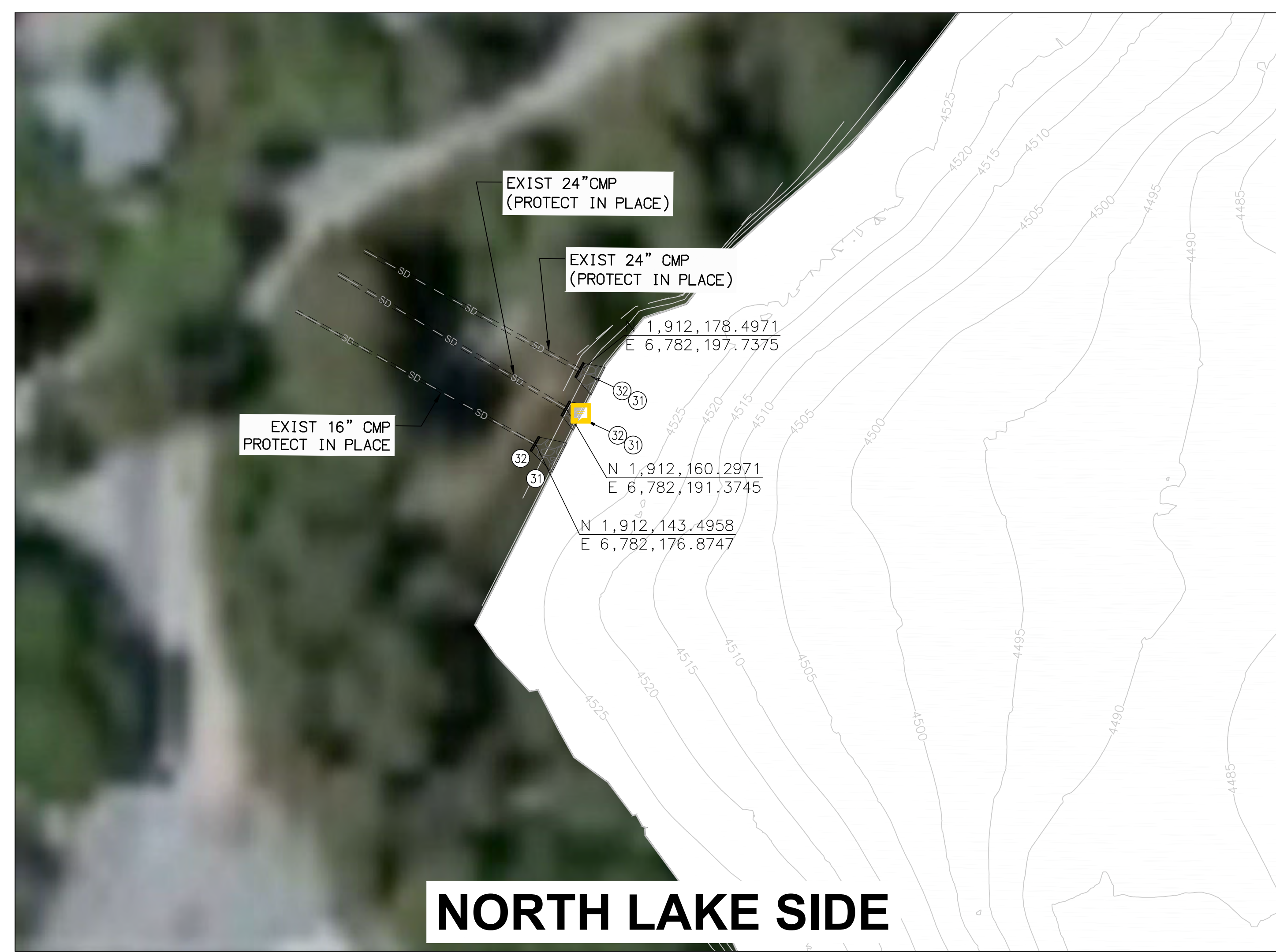
APPROVALS	ASSISTANT DIRECTOR	DATE	
		INITIAL	DATE
	PROJECT MANAGER		
	OPS. DIVISION MANAGER		
	PM. DIVISION MANAGER		

**IMPROVEMENT PLANS**  
LAKE GREGORY SITEWIDE SEDIMENT MANAGEMENT PROJECT  
SAN BERNARDINO COUNTY REGIONAL PARKS DEPARTMENT  
CRESTLINE, CALIFORNIA  
PROPOSED IMPROVEMENTS AT EXISTING LAKE INLETS

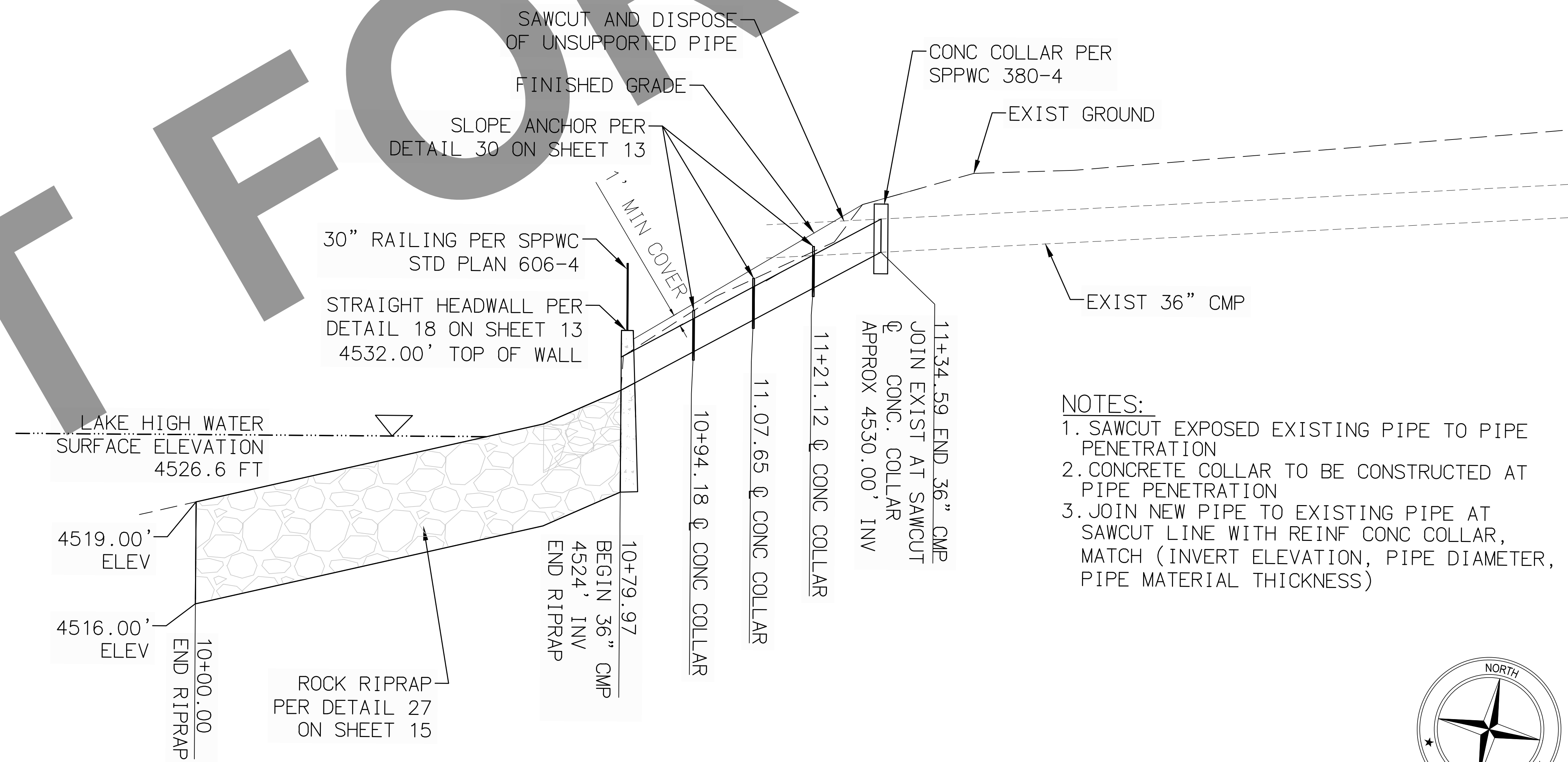
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FILE NO. XXX-XXX  
SHEET 10 OF 16

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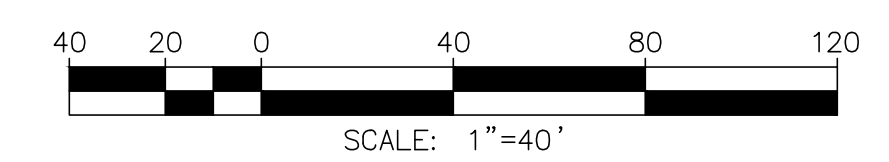
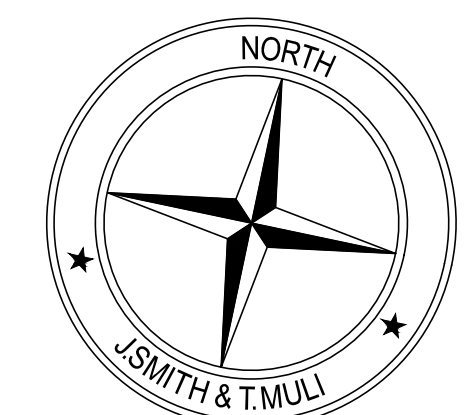




- CONSTRUCTION NOTES**
- 17 SAWCUT CMP AT PIPE PENETRATION POINT. INSTALL TYPE 2 STRAIGHT CONCRETE HEADWALL PER DETAIL 18 ON SHEET 13
  - 20 CONSTRUCT 10'X10' RIPRAP ENERGY DISSIPATOR PER PLAN AND DETAIL 20 ON SHEET 14
  - 22 CONSTRUCT CONCRETE COLLAR AT PIPE PENETRATION AND EXTEND PIPE PER PLAN AND DETAIL 28 HEREON
  - 25 CONSTRUCT REINFORCED CONCRETE COLLAR PER SPPWC STD PLAN 380-4
  - 26 ABANDON EXIST SD PIPE IN PLACE TO LIMITS SHOWN AND BACKFILL WITH CSLM PER SPPWC 306-12.3
  - 27 CONSTRUCT RIP-RAP EROSION CONTROL BLANKET PER DETAIL 27 ON SHEET 15
  - 31 CONSTRUCT RIP-RAP EROSION CONTROL BLANKET PER DETAIL 27 LAYOUT TYPE C ON SHEET 15
  - 32 CONSTRUCT TYPE-1 STRAIGHT HEADWALL WITH CUTOFF WALL PER DETAIL 17 ON SHEET 13
  - 33 CONSTRUCT PROTECTIVE RAILING PER SPPWC STD PLAN 606-4 AND DETAIL 18 ON SHEET 13



- NOTES:**
1. SAWCUT EXPOSED EXISTING PIPE TO PIPE PENETRATION
  2. CONCRETE COLLAR TO BE CONSTRUCTED AT PIPE PENETRATION
  3. JOIN NEW PIPE TO EXISTING PIPE AT SAWCUT LINE WITH REINF CONC COLLAR, MATCH (INVERT ELEVATION, PIPE DIAMETER, PIPE MATERIAL THICKNESS)



**28 STORM DRAIN CONSTRUCTION DETAIL**  
NOT TO SCALE

95% PROGRESS SET  
NOT FOR CONSTRUCTION

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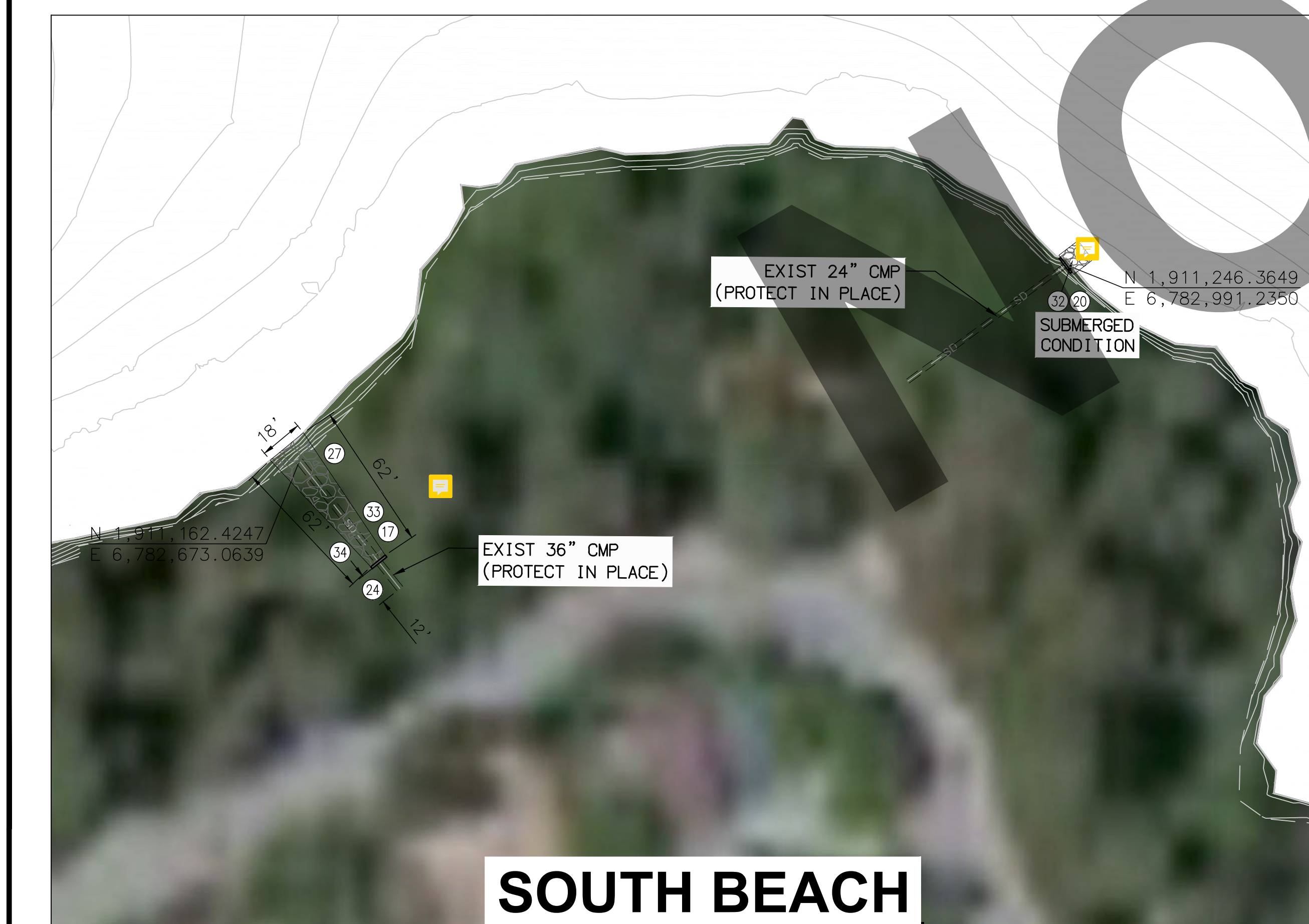




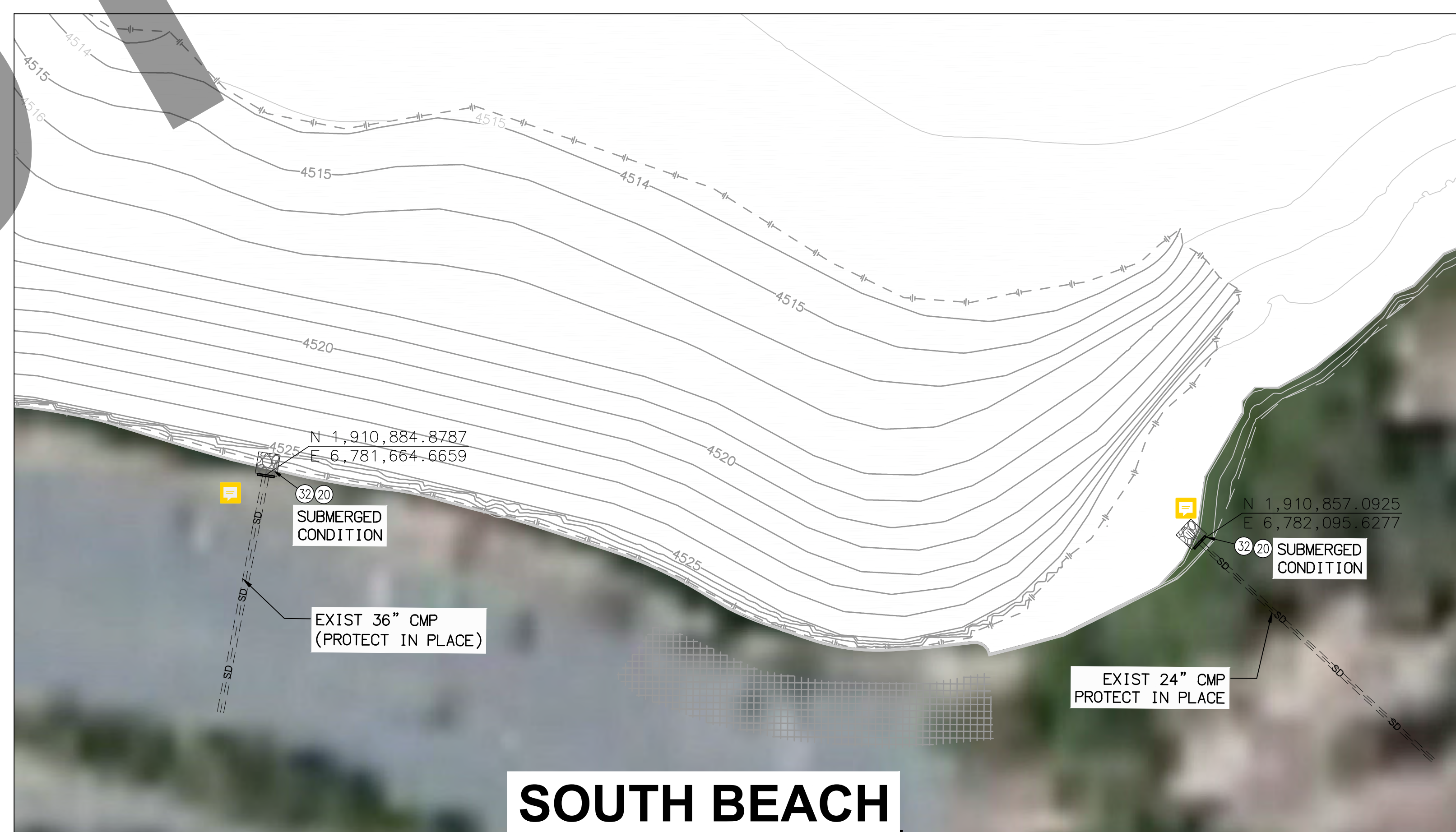
**EAST LAKE SIDE**



**SOUTH LAKE AND MORITZ CHANNEL/BASINS**



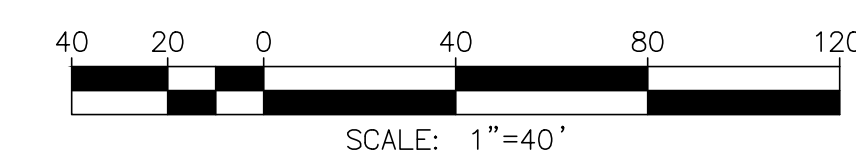
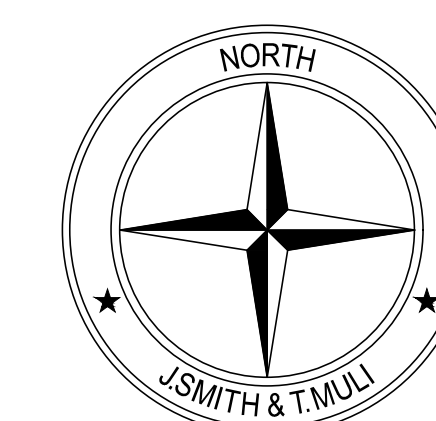
**SOUTH BEACH**



**SOUTH BEACH**

**CONSTRUCTION NOTES**

- 17 SAWCUT CMP AT PIPE PENETRATION POINT. INSTALL TYPE 2 STRAIGHT CONCRETE HEADWALL PER DETAIL 18 ON SHEET 13
- 20 CONSTRUCT 10'X10' RIPRAP ENERGY DISSIPATOR PER PLAN AND DETAIL 20 ON SHEET 14
- 21 REMOVE AND PROPERLY DISPOSE OF EXIST ABANDONED CMP SD
- 23 CONSTRUCT NEW 24" CMP PER PLAN AND DETAIL 29 ON SHEET16
- 24 REMOVE EXIST SD PIPE TO LIMITS SHOWN
- 25 CONSTRUCT REINFORCED CONCRETE COLLAR PER SPPWC STD PLAN 380-4
- 26 ABANDON EXIST SD PIPE IN PLACE TO LIMITS SHOWN AND BACKFILL WITH CSLM PER SPPWC 306-12.3
- 27 CONSTRUCT RIP-RAP EROSION CONTROL BLANKET PER DETAIL 27 ON SHEET 15
- 32 CONSTRUCT TYPE-1 STRAIGHT HEADWALL WITH CUTOFF WALL PER DETAIL 17 ON SHEET 13
- 33 CONSTRUCT PROTECTIVE RAILING PER SPPWC STD PLAN 606-4 AND DETAIL 18 ON SHEET 13
- 34 SAWCUT CMP AT PIPE PENETRATION POINT. INSTALL TYPE 1 STRAIGHT CONCRETE HEADWALL PER DETAIL 17 ON SHEET 13 AND CONSTRUCTION DETAIL 32 ON SHEET 16



95% PROGRESS SET  
NOT FOR CONSTRUCTION

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JONIS C. SMITH 058654 09/08/2023  
PROFESSIONAL ENGINEER R.C.E. No. DATE

MARK	DATE	INITIAL	DESCRIPTION	APPR. DATE

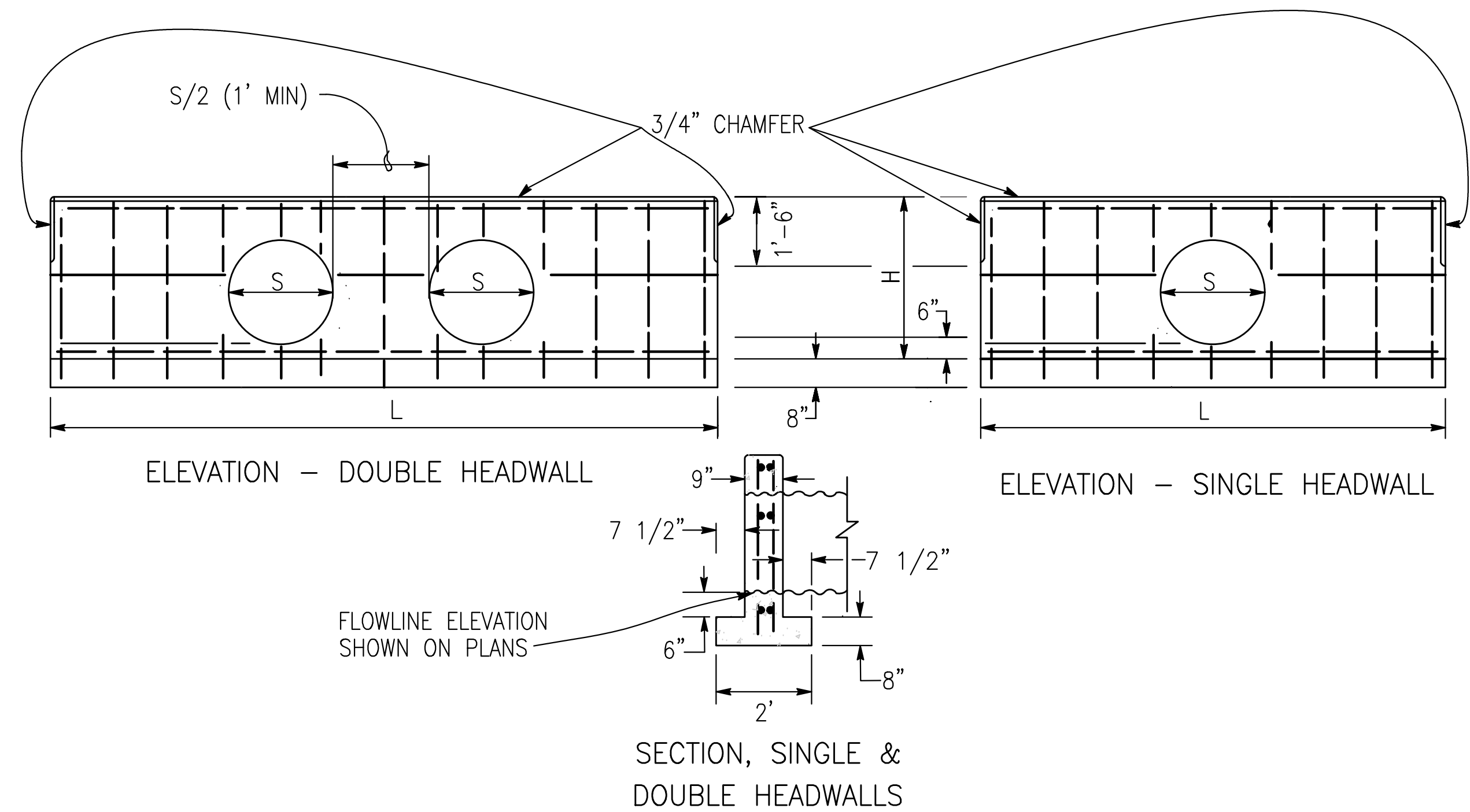
PLANS APPROVED BY:  
SAN BERNARDINO COUNTY - PUBLIC WORKS  
SPECIAL DISTRICTS

APPROVALS	DATE
ASSISTANT DIRECTOR	
PROJECT MANAGER	
OPS. DIVISION MANAGER	
PM. DIVISION MANAGER	

**IMPROVEMENT PLANS**  
LAKE GREGORY SITEWIDE SEDIMENT MANAGEMENT PROJECT  
SAN BERNARDINO COUNTY REGIONAL PARKS DEPARTMENT  
CRESTLINE, CALIFORNIA  
PROPOSED IMPROVEMENTS AT EXISTING LAKE INLETS

DWG NO.  
XX.XX.XXXX  
FILE NO.  
XXX-XXX  
SHEET 12 OF 16

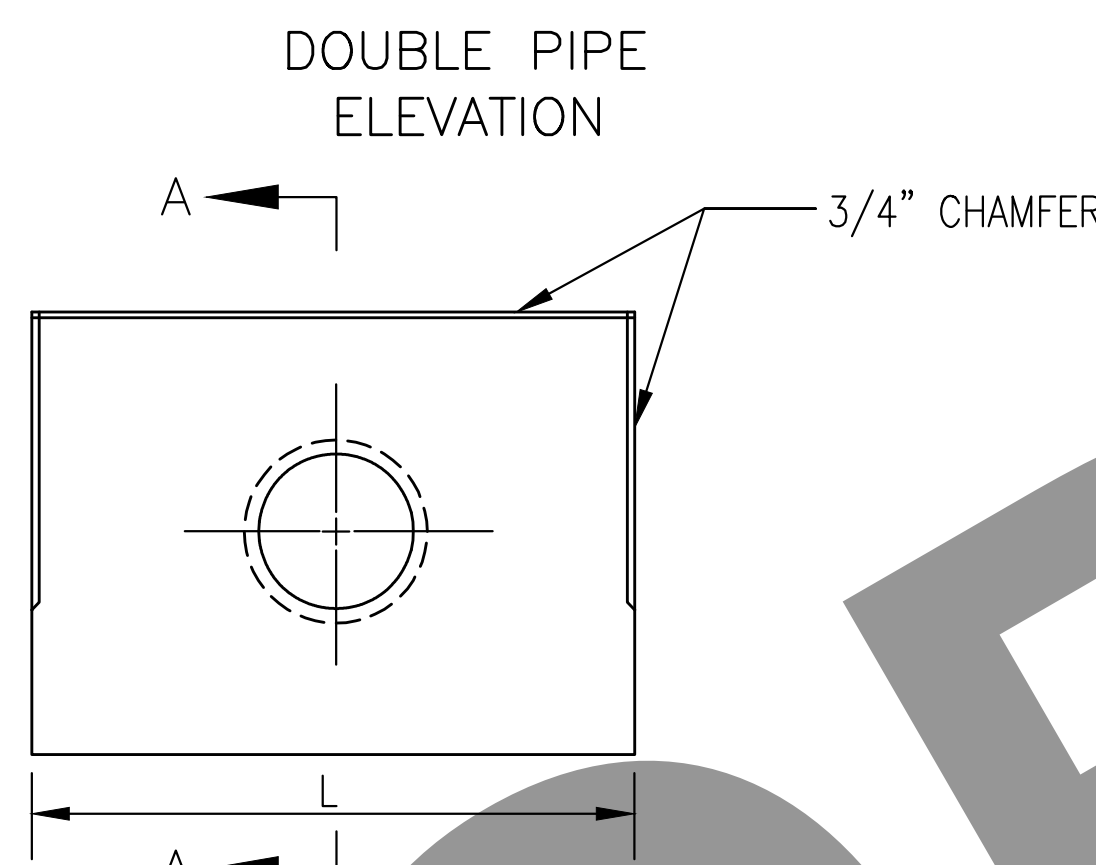
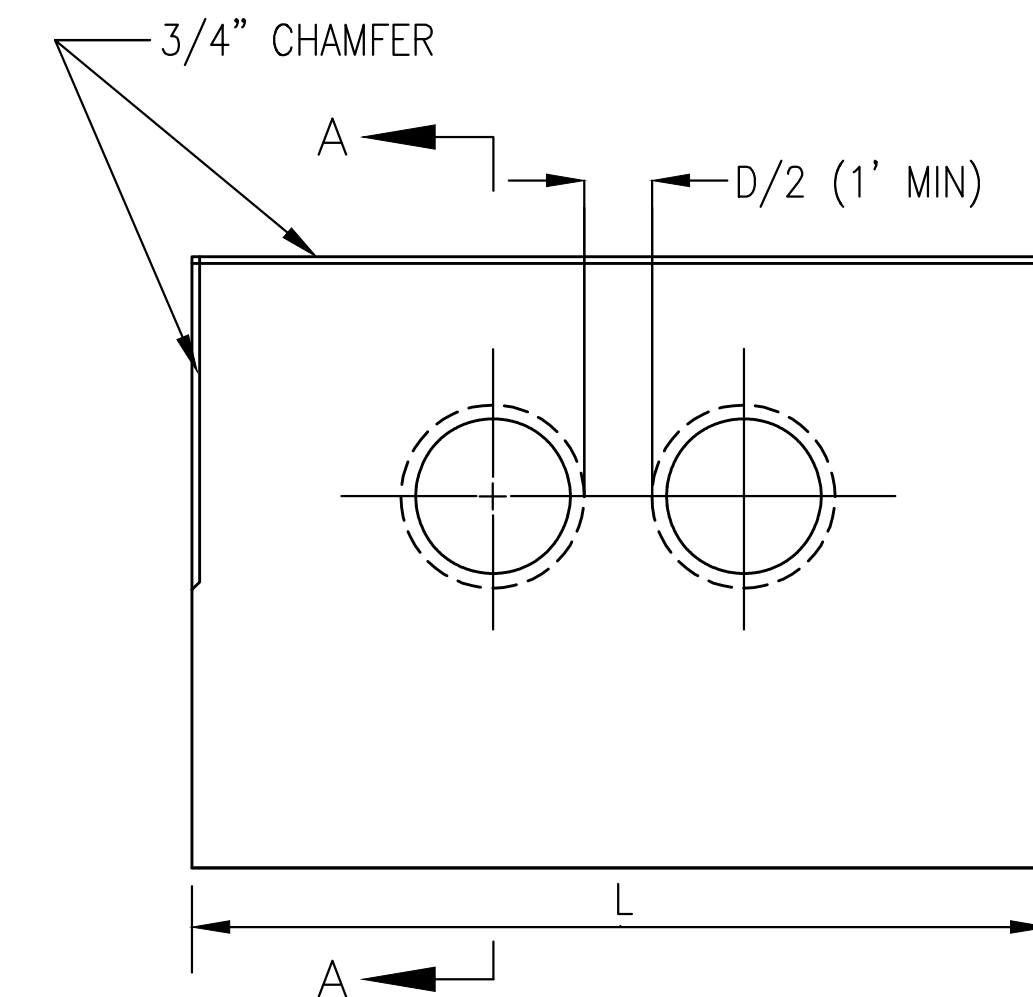




C.S.P. SIZE (INCHES)	SINGLE				DOUBLE		
	H (FT/IN)	L (FT/IN)	STEEL (POUNDS)	CONCRETE (C.Y.)	L (FT/IN)	STEEL (POUNDS)	CONCRETE (C.Y.)
18	2'-7"	5'-6"	37	0.64	8'	52	0.91
21	2'-11"	6'-6"	45	0.80	10'	60	1.22
24	3'-2"	7'-6"	50	0.96	11'-6"	70	1.45
28	3'-4"	8'-6"	60	1.12	13'-6"	90	1.76
35	3'-8"	10'-6"	85	1.47	15'-6"	120	2.16
42	4'-1"	12'-6"	110	1.76	18'	145	2.57
49	4'-5"	14'-6"	130	2.26	21'	170	3.13
57	4'-10"	17'	155	2.81	24'-6"	210	3.86
64	5'-3"	19'	175	3.31	27'	230	4.42
71	5'-7"	21'	195	3.81	30'	255	5.09

- NOTES:
- CONCRETE SHALL BE 560-C-3250 WITH TYPE V PORTLAND CEMENT
  - ALL REINFORCING STEEL SHALL BE #4 BARS. ALL VERTICAL AND HORIZONTAL TIE BARS @18" MAXIMUM SPACING
  - EXPOSED CORNERS SHALL BE 3/4" CHAMFERED

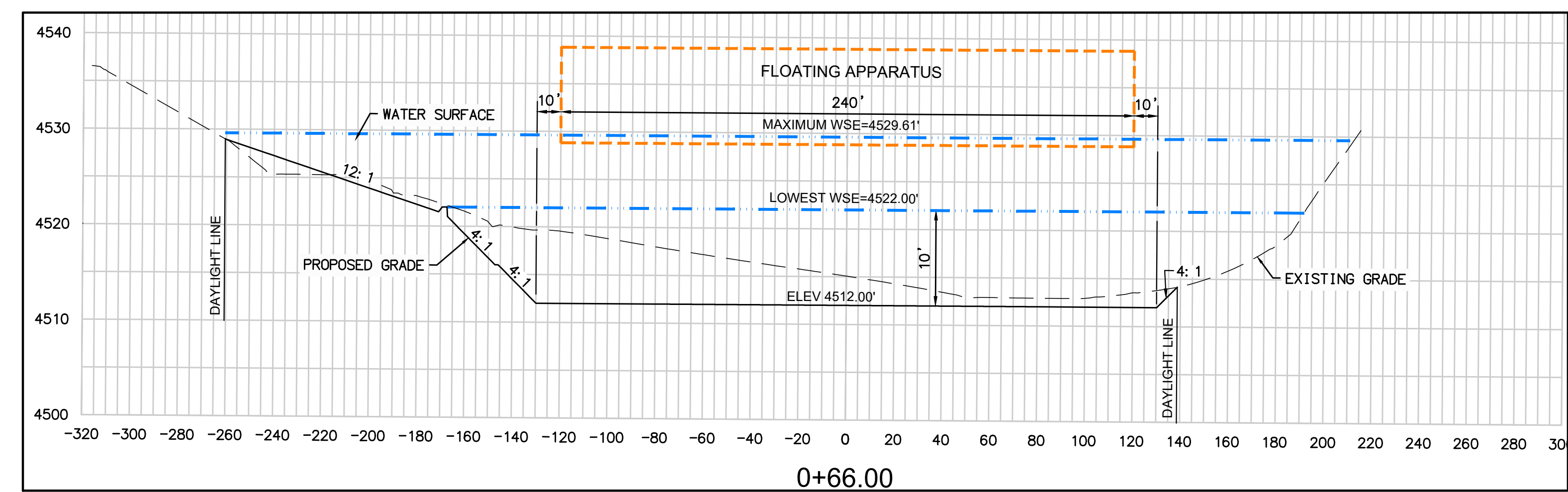
**17 STRAIGHT HEADWALL - TYPE 1**  
NOT TO SCALE



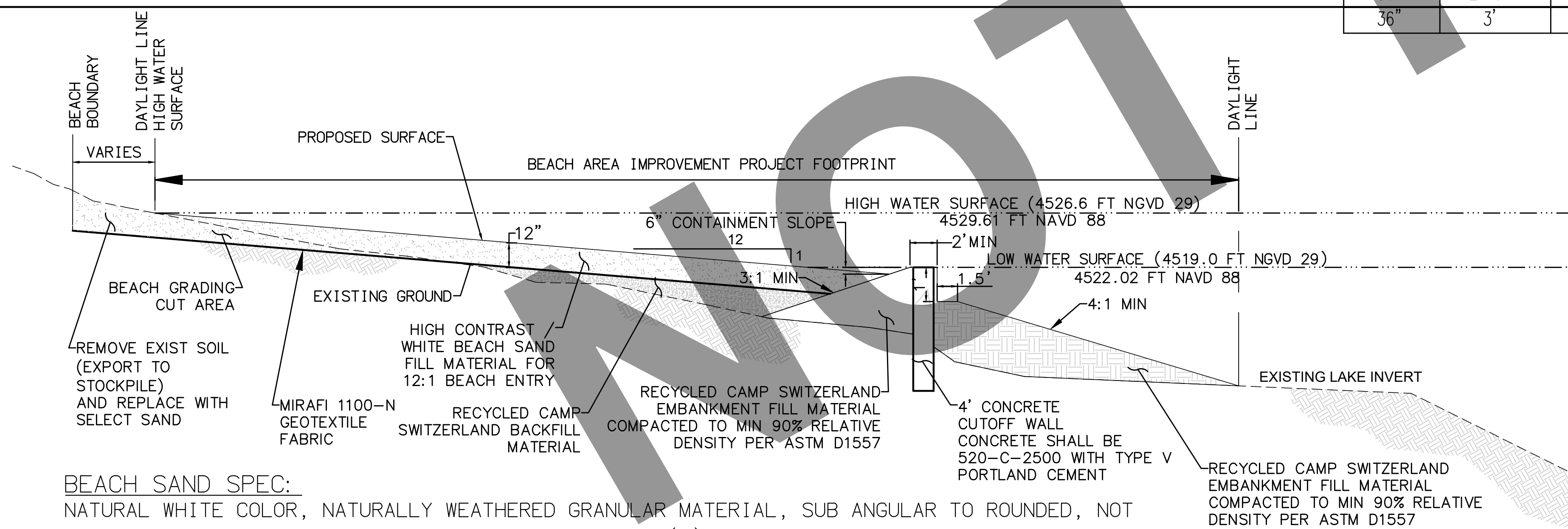
D	A	B	H	SINGLE		DOUBLE	
				L	CONCRETE (C.Y.)	L	CONCRETE (C.Y.)
12"	2'	1'	4'	4'	0.45	5'-8"	.62
15"	2'	1'-1"	4'-3"	5'	0.63	7'-1"	.85
18"	2'	1'-2"	4'-6"	6'	0.83	8'-6"	1.12
24"	2'-6"	1'-5"	5'-6"	8'	1.54	11'-4"	2.09
30"	2'-6"	1'-9"	6'	10'	2.41	14'-2"	3.26
36"	3'	2'	7'	12'	3.74	17'	5.05

- NOTES:
- CONCRETE SHALL BE 560-C-3250 WITH TYPE V PORTLAND CEMENT
  - EXPOSED CORNERS SHALL BE 3/4" CHAMFERED

**18 STRAIGHT HEADWALL - TYPE 2**  
NOT TO SCALE



**X SECTION X-X: FLOATING APPARATUS**  
(SEE SHEET 5)  
VERTICAL SCALE: 1"=4'



**BEACH SAND SPEC:**  
NATURAL WHITE COLOR, NATURALLY WEATHERED GRANULAR MATERIAL, SUB ANGULAR TO ROUNDED, NOT ACQUIRED FROM CRUSHED ROCK OR MANUFACTURED SOURCE(S), FREE FROM DELETERIOUS MATERIALS, FREE OF ORGANIC MATERIAL, MICA, LOAM, CLAY, AND OTHER MATERIALS NOT SUITABLE FOR INTENDED USE.

Material	Grade	Gravel	V. Course	Course	Medium	Fine	V. Fine	Pan (Clay+Silt) <0.05
Sizes (%) retained)	Millimeter	2.0 mm	1.0 mm	0.5 mm	0.25 mm	0.15 mm	0.05 mm	
% By Weight	Screen	#10	#18	#35	#60	#100	#270	0-0.5%

**A SECTION A-A: SAND BEACH ENTRY FILL SLOPE**  
(SEE SHEET 5)  
NOT TO SCALE

95% PROGRESS SET  
NOT FOR CONSTRUCTION



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PROFESSIONAL ENGINEER R.C.E. No. DATE

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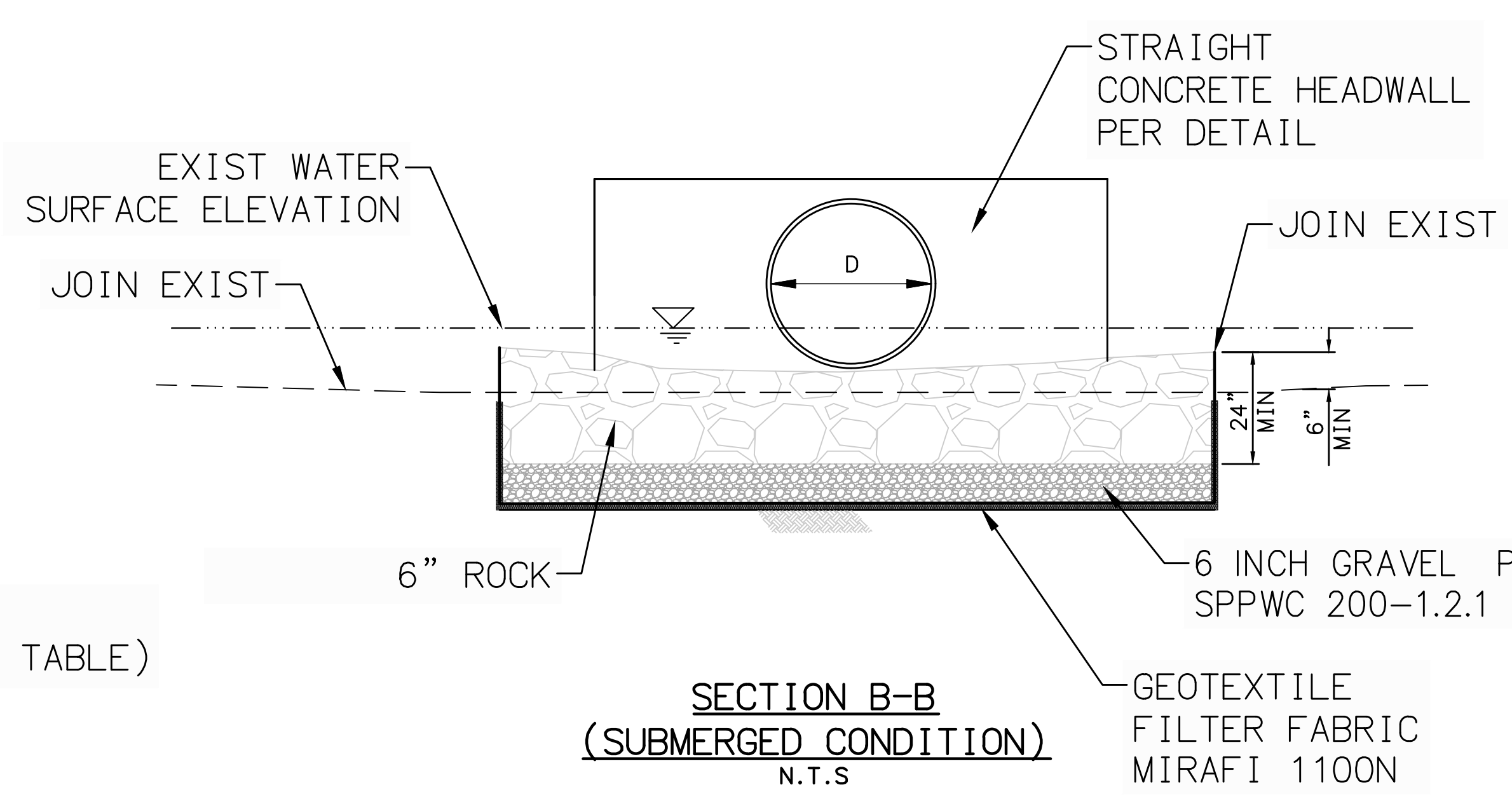
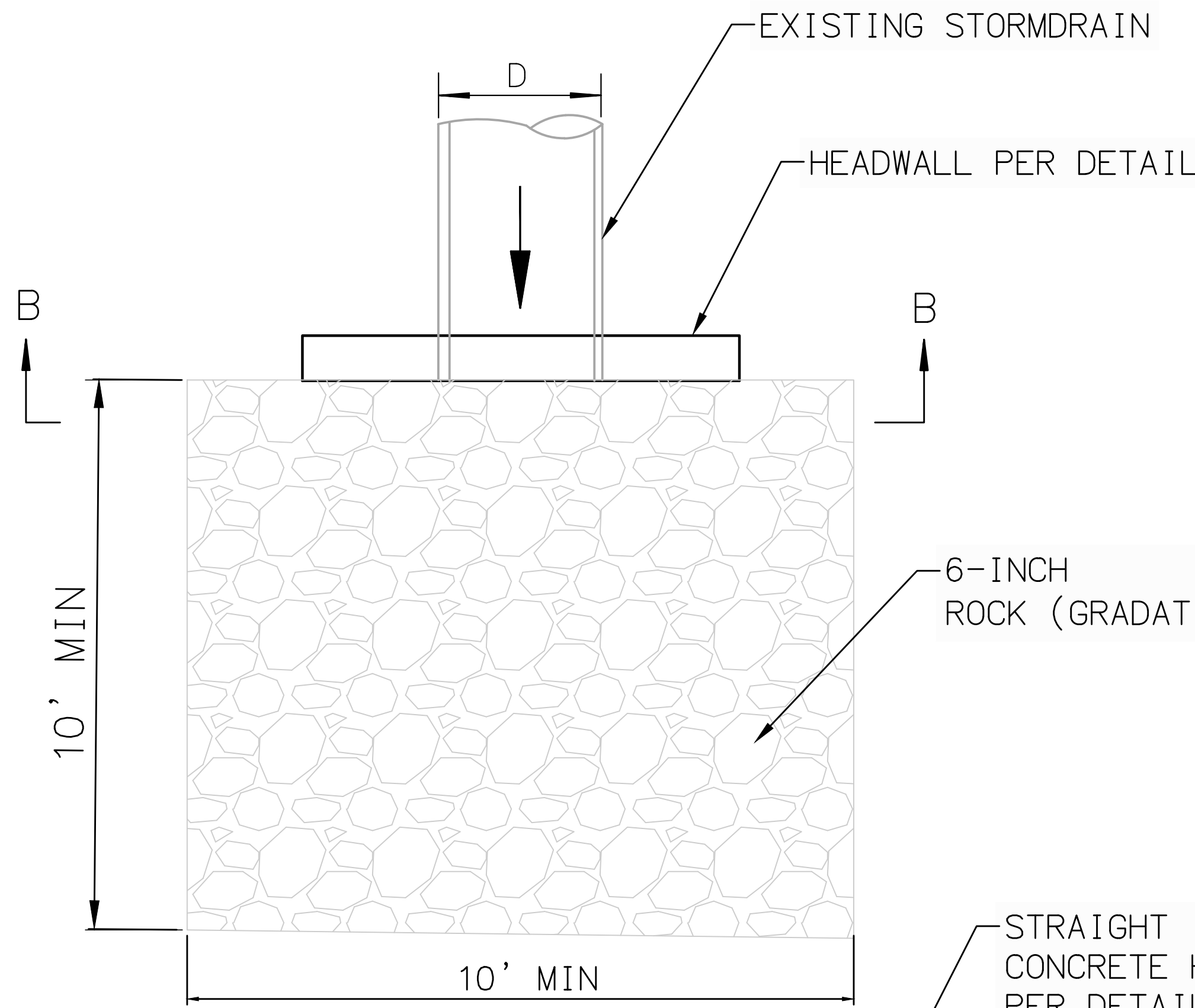
PLANS APPROVED BY:  
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS

APPROVALS	DATE
PROJECT MANAGER	
OPS. DIVISION MANAGER	
PM. DIVISION MANAGER	

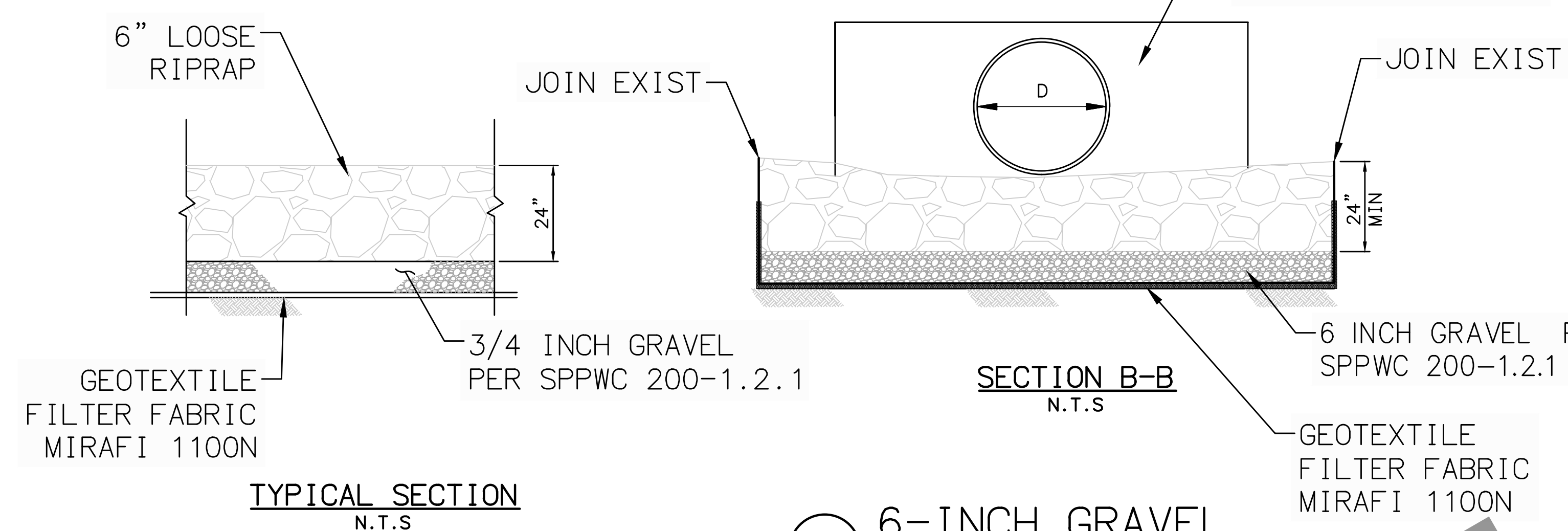
**IMPROVEMENT PLANS**  
LAKE GREGORY SITEWIDE SEDIMENT MANAGEMENT PROJECT  
SAN BERNARDINO COUNTY REGIONAL PARKS DEPARTMENT  
CRESTLINE, CALIFORNIA  
**DETAILS**

DWG NO. XX.XX.XXXX  
FILE NO. XXX-XXX  
SHEET 13 OF 16

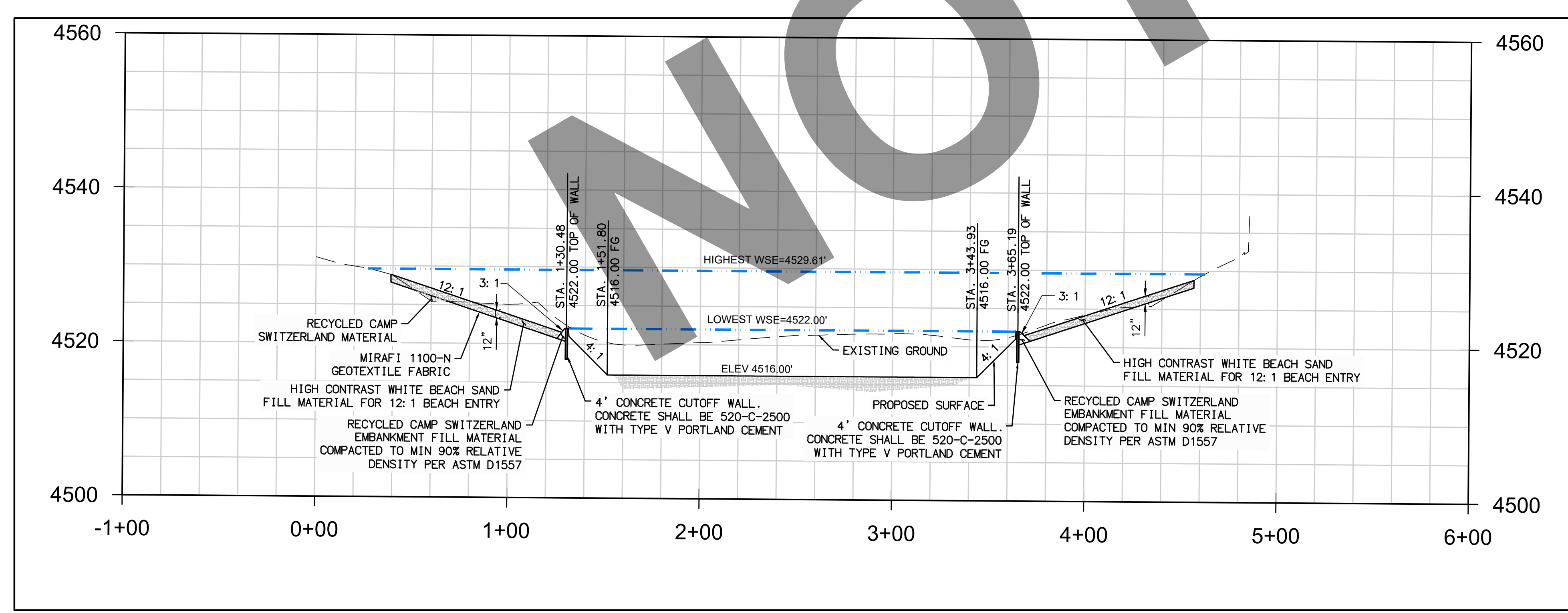




6-INCH ROCK GRADATION	
Sieve Size (Inches)	Percent Passing
6	100
5	80-100
4	50-85
3	20-60
2	10-30
1	0-10
0.5	0-5



20 6-INCH GRAVEL  
NOT TO SCALE



SECTION B-B: LAKE CROSS SECTION  
(SEE SHEET 5)  
VERTICAL SCALE: 1"=4'

95% PROGRESS SET  
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JONIS C SMITH 098654 09/08/2023  
PROFESSIONAL ENGINEER R.C.E. No. DATE

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:  
SAN BERNARDINO COUNTY - PUBLIC WORKS  
SPECIAL DISTRICTS

ASSISTANT DIRECTOR	DATE

APPROVALS

PROJECT MANAGER	INITIAL	DATE
OPS. DIVISION MANAGER		
PM. DIVISION MANAGER		

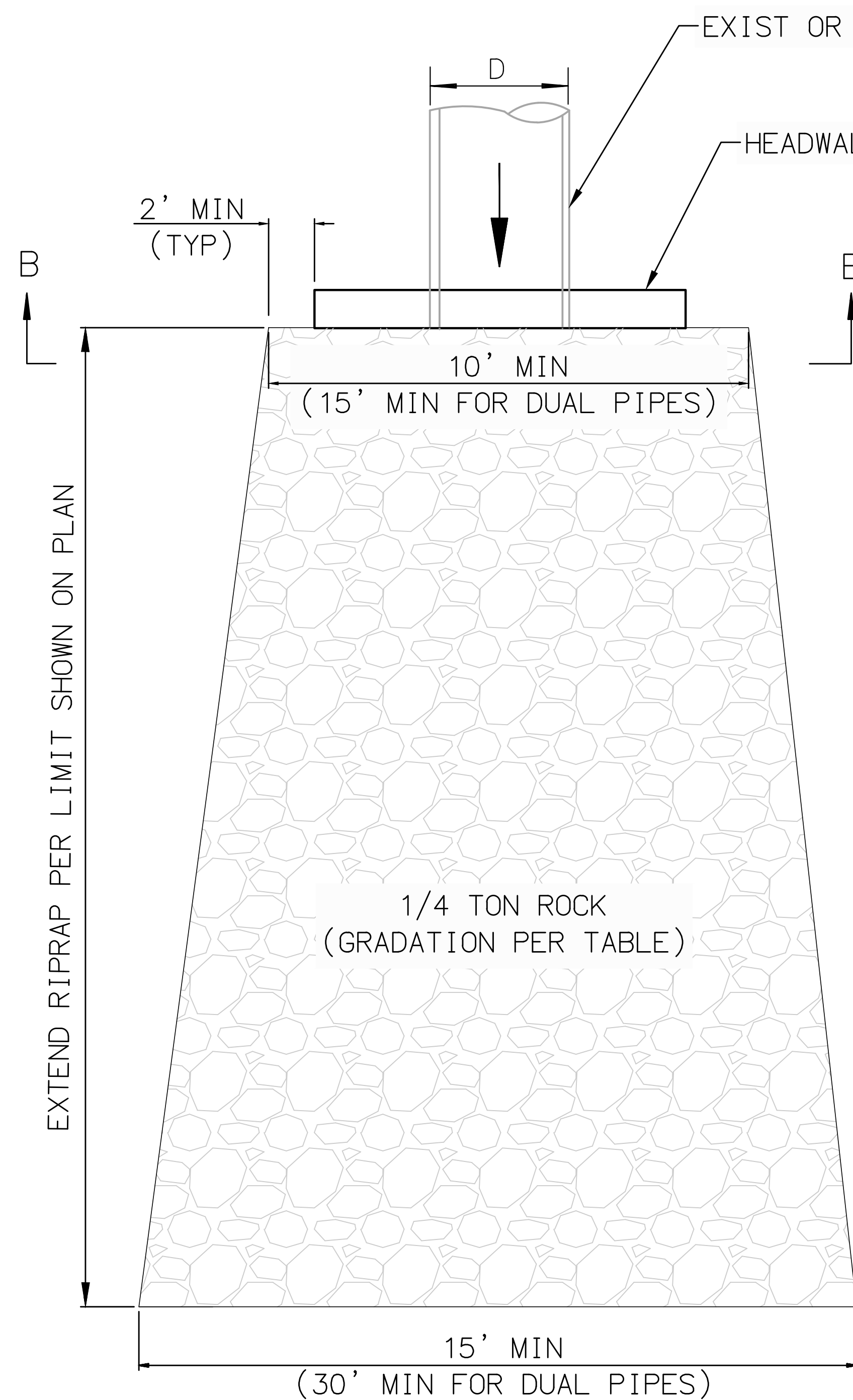
IMPROVEMENT PLANS  
LAKE GREGORY SITEWIDE SEDIMENT MANAGEMENT PROJECT  
SAN BERNARDINO COUNTY REGIONAL PARKS DEPARTMENT  
CRESTLINE, CALIFORNIA  
DETAILS

DWG NO.  
XX.XX.XXXX  
FILE NO.  
XXX-XXX  
SHEET 14 OF 16

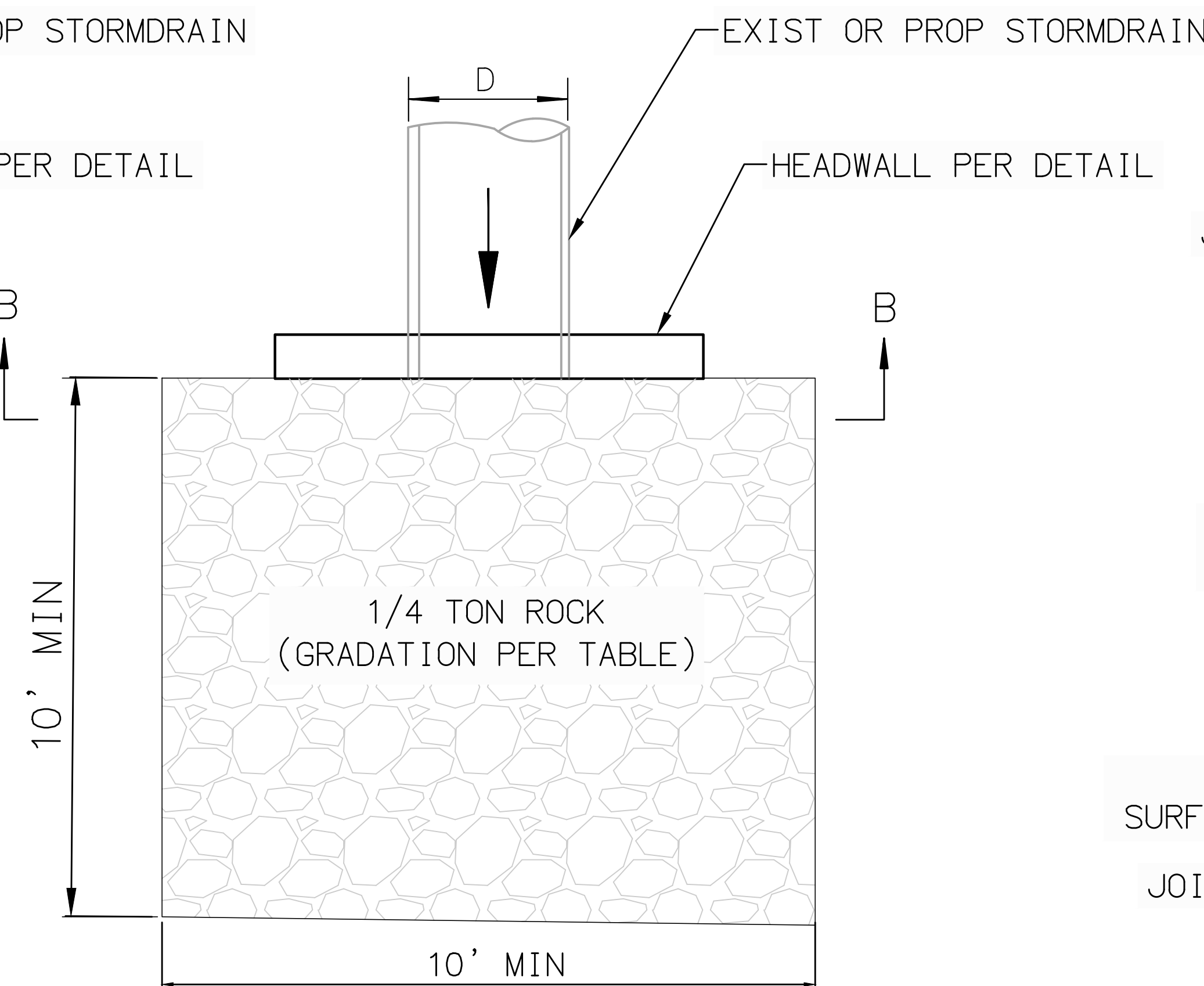
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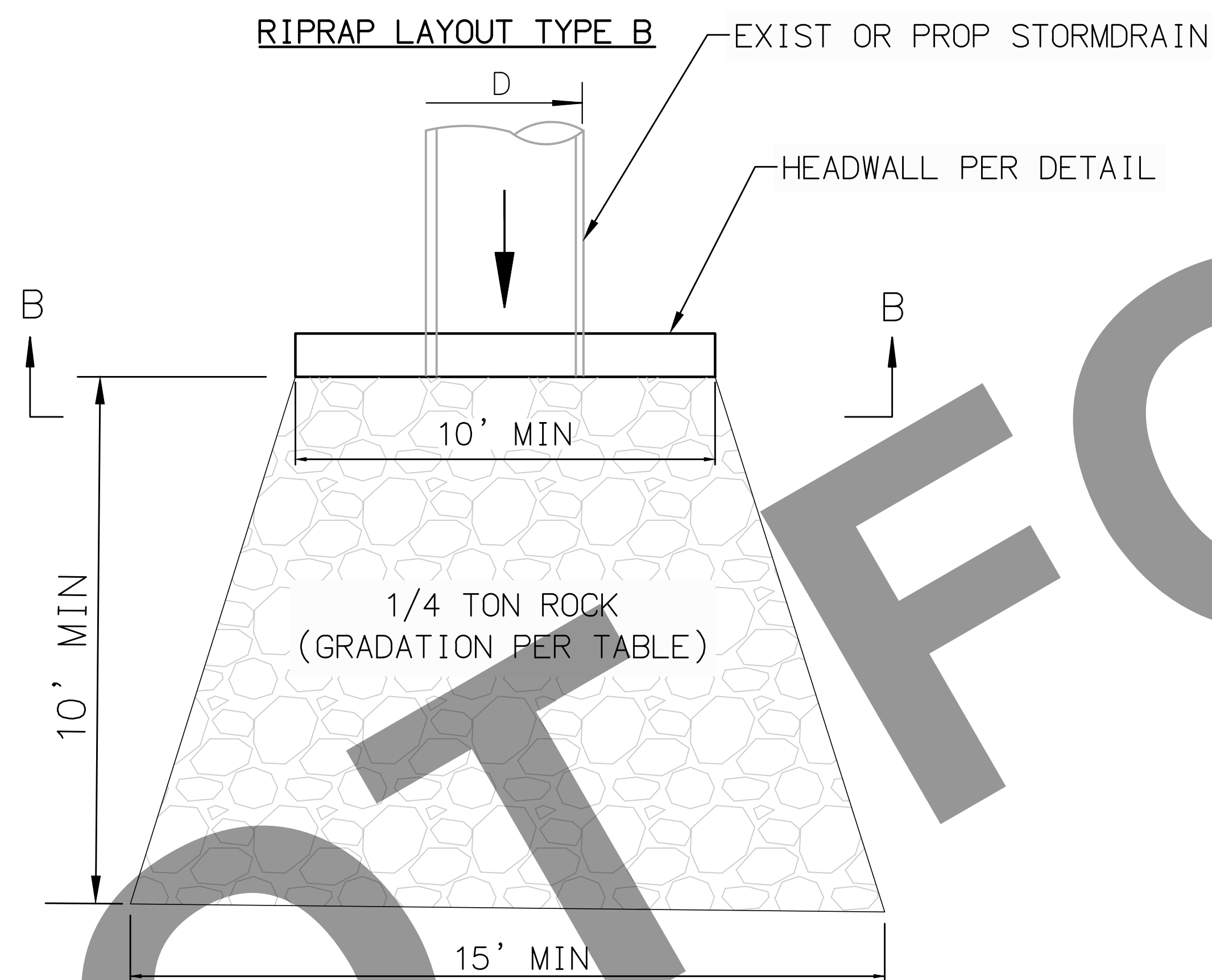




RIPRAP LAYOUT TYPE A

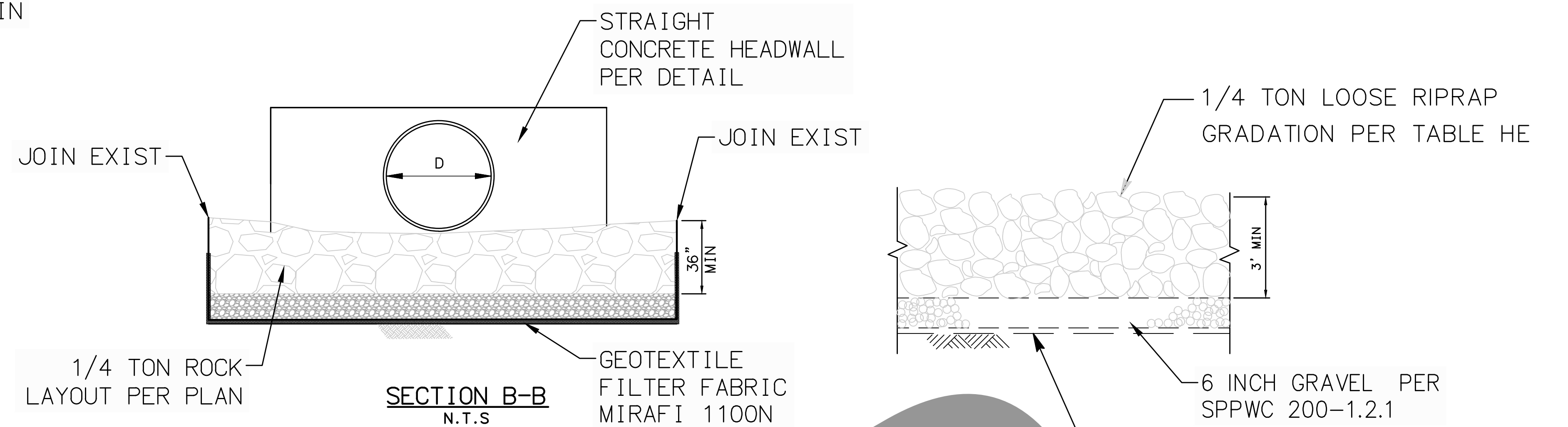


RIPRAP LAYOUT TYPE B



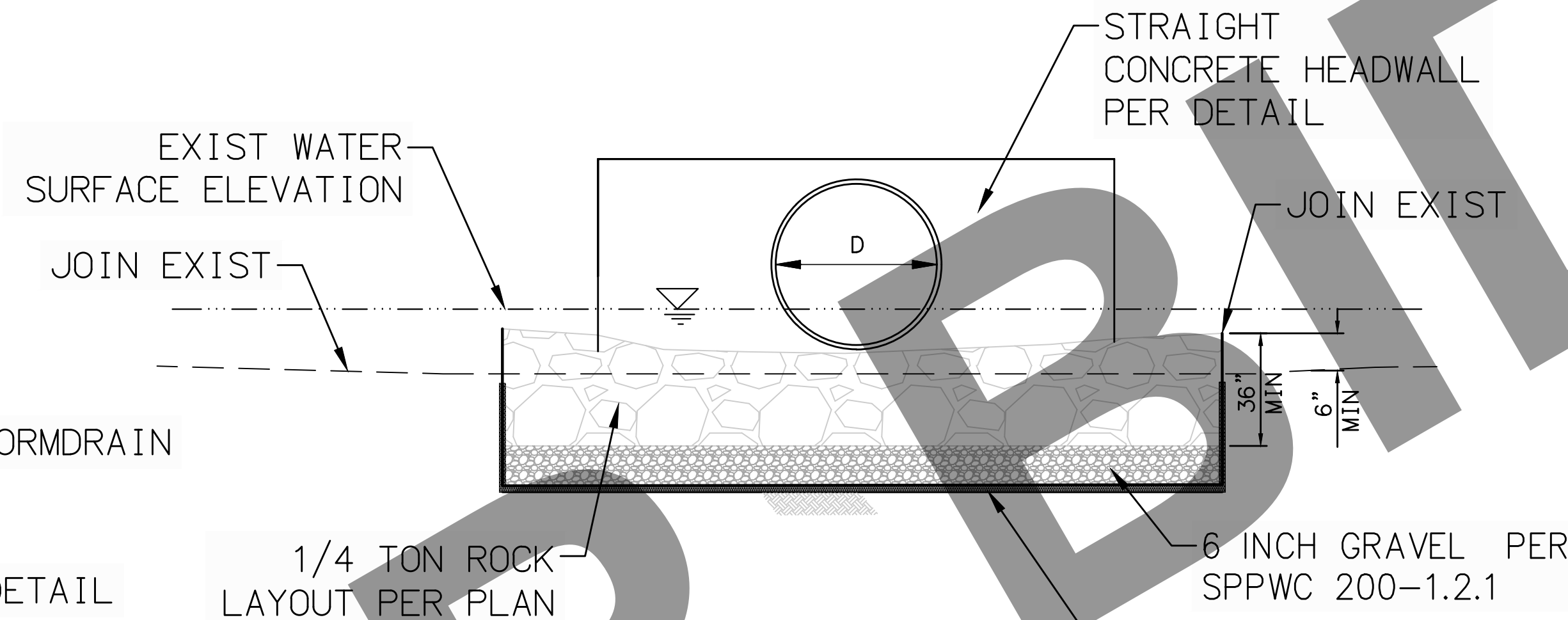
RIPRAP LAYOUT TYPE C

27 LOOSE RIPRAP NOT TO SCALE



SECTION B-B N.T.S.

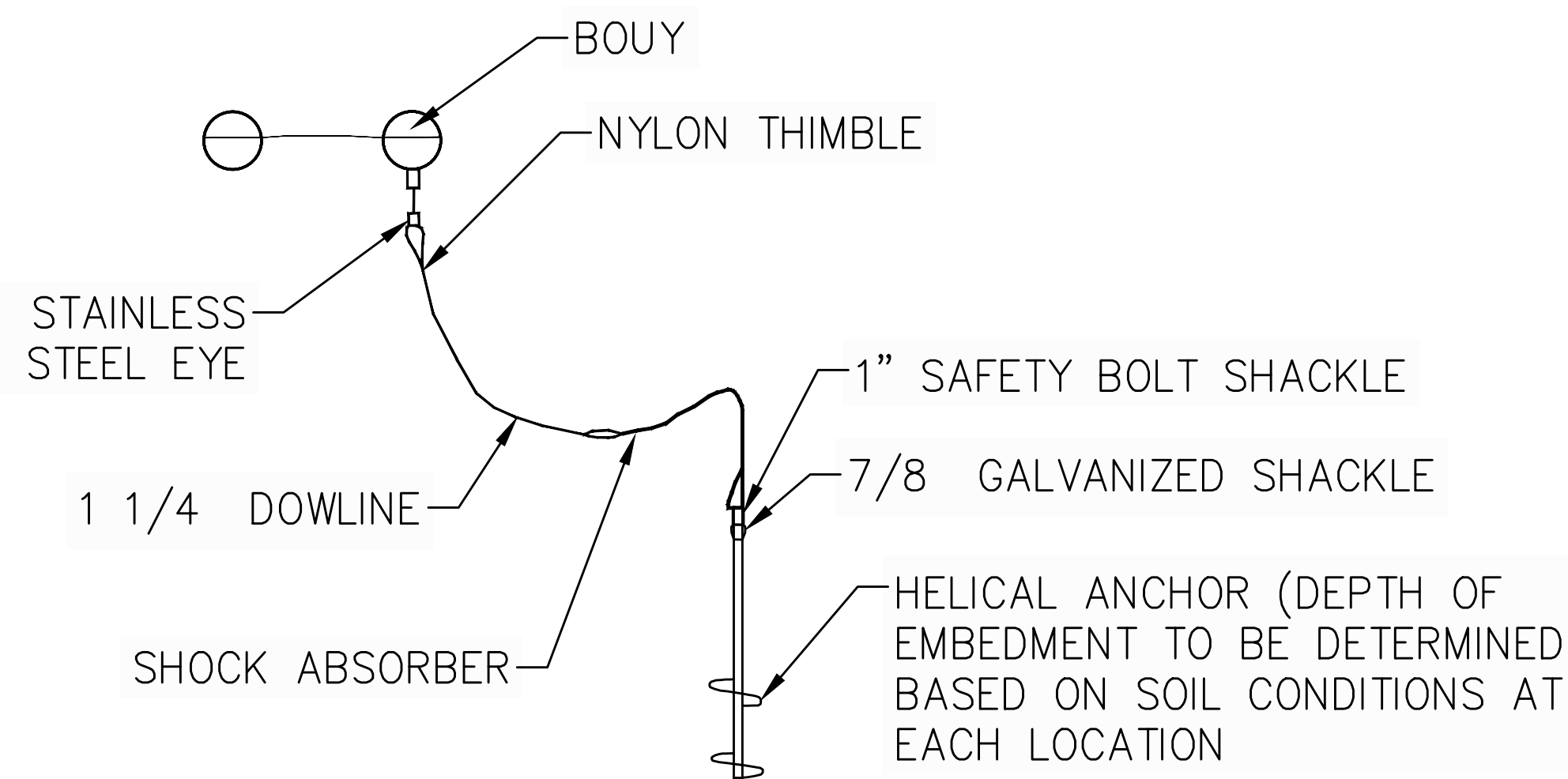
TYPICAL SECTION N.T.S.



SECTION B-B (SUBMERGED CONDITION) N.T.S.

**1/4 TON ROCK GRADATION TABLE**

WEIGHT	PERCENT LIGHTER THAN
1800#	100%
700	90 - 100
500	50 - 90
200	0 - 15



30 BOUY LINE ANCHORAGE NOT TO SCALE

**NOTES:**

1. ANCHOR SYSTEMS MUST PROVIDE AT LEAST 500 POUNDS OF UPWARD LOAD PRESSURE
2. A ROCK-PENETRATING HELICAL EMBEDMENT ANCHOR (GALVANIZED STEEL) SHALL BE USED. ANCHOR SHALL BE EMBEDDED A MINIMUM OF 1' INTO ROCK SUBSTRATE.
3. MINIMUM ANCHOR LENGTH 5', MINIMUM HELICAL DISC SIZE 6", AND MINIMUM SHAFT DIAMETER OF 1-1/4"
4. THE ATTACHMENT EYE SHALL BE NO MORE THAN 6" ABOVE THE SUBSTRATE
5. EXTENSIONS MAY BE REQUIRED IN ORDER TO ACHIEVE 500 POUNDS OF RESISTING FORCE

95% PROGRESS SET  
NOT FOR CONSTRUCTION



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33161 Camino Capistrano, Suite D, San Juan Capistrano, CA 92675  
Phone: (949) 329.3639 · JSTMINC.COM  
JONIS C. SMITH 058654 09/08/2023  
PROFESSIONAL ENGINEER R.C.E. No. DATE

MARK	DATE	INITIAL	DESCRIPTION	APPR. DATE

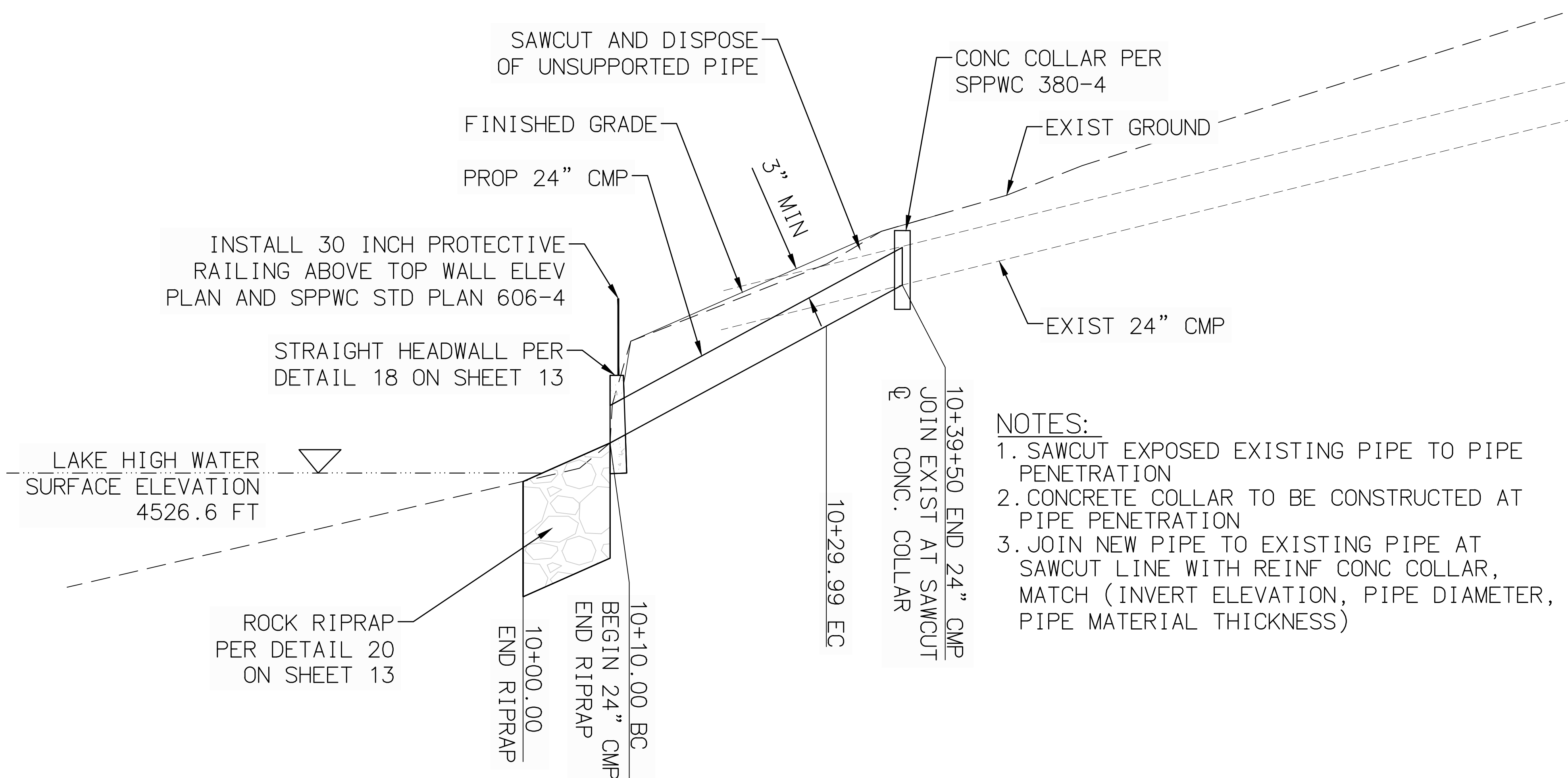
PLANS APPROVED BY:  
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS

APPROVALS	DATE
ASSISTANT DIRECTOR	
PROJECT MANAGER	
OPS. DIVISION MANAGER	
PM. DIVISION MANAGER	

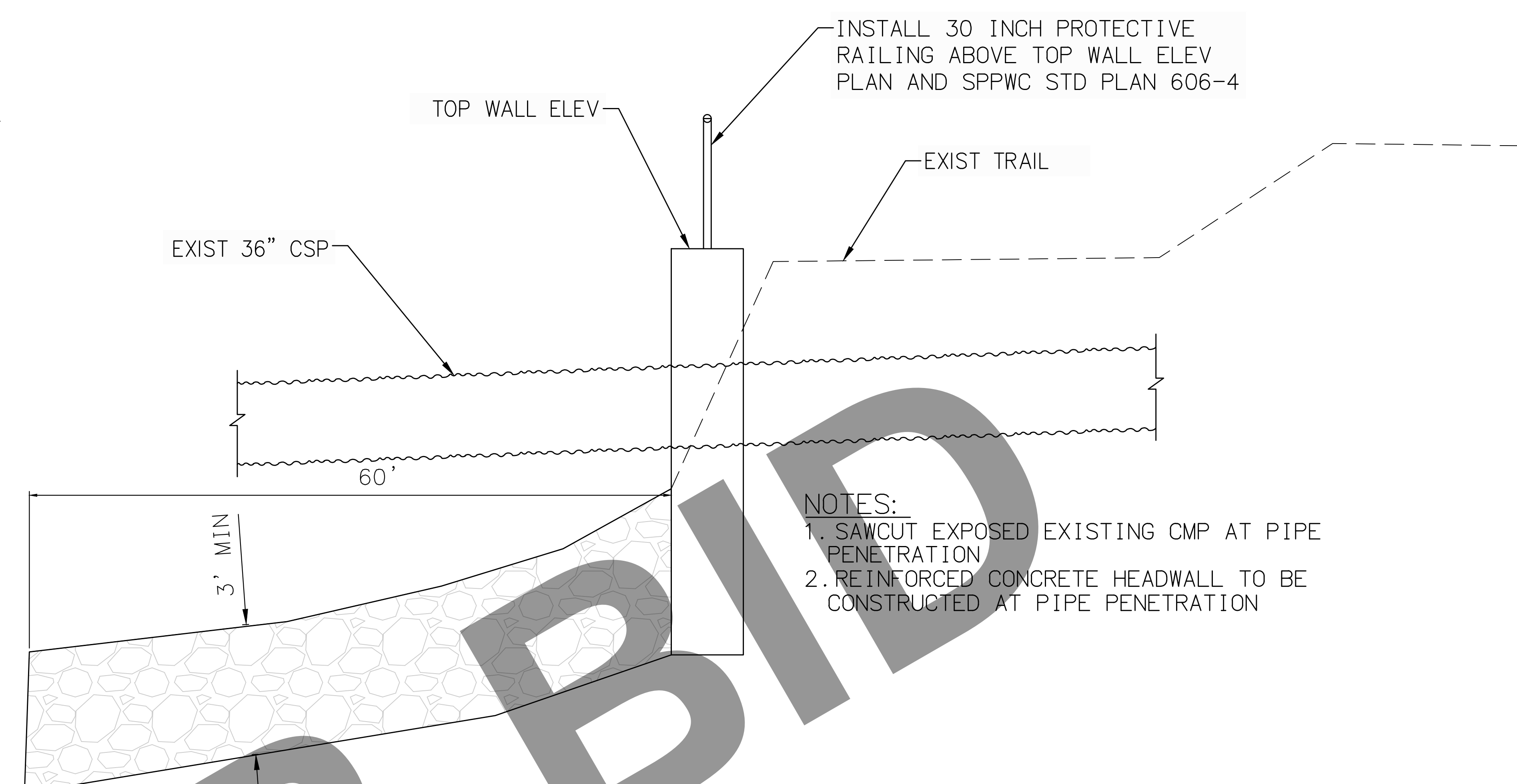
**IMPROVEMENT PLANS**  
LAKE GREGORY SITEWIDE SEDIMENT MANAGEMENT PROJECT  
SAN BERNARDINO COUNTY REGIONAL PARKS DEPARTMENT  
CRESTLINE, CALIFORNIA  
**DETAILS**

DWG NO. XX.XX.XXXX  
FILE NO. XXX-XXX  
SHEET 15 OF 16

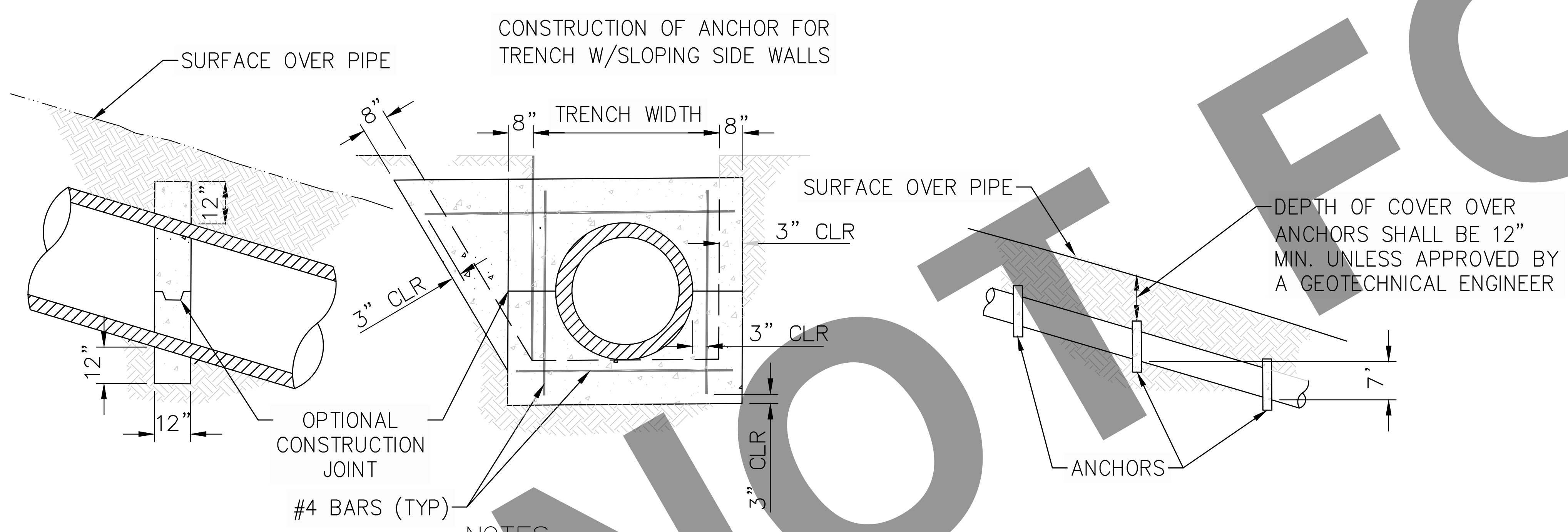




29 STORM DRAIN CONSTRUCTION DETAIL  
NOT TO SCALE



32 STORM DRAIN PIPE LAYOUT  
NOT TO SCALE



NOTES:  
 1. PIPE ANCHORS SHALL BE CONSTRUCTED AT 7 FEET VERTICAL INTERVAL ON ALL SLOPES OF 5:1 OR STEEPER.  
 2. ALL REINFORCING STEEL SHALL BE #4 BARS  
 3. CONCRETE STRENGTH AND TYPE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 201-1.1.2 AND SECTION 201-1.1.3 OF THE GREENBOOK. IN ADDITION, PORTLAND CEMENT SHALL CONFORM TO THE REQUIREMENTS OF SECTION 201-1 OF THE GREENBOOK

31 CONCRETE SLOPE ANCHOR  
NOT TO SCALE



NOTES:  
 1. SIGN SHALL BE PER CALIFORNIA HEALTH & SAFETY CODE, TITLE 3 OF SAN BERNARDINO COUNTY CODE AND GUIDELINES  
 2. POST SHALL BE PER SAN BERNARDINO COUNTY ROAD DEPARTMENT STD PLAN 303a AND INSTALLATION PER 303b  
 3. SIGN SHALL BE INSTALLED IN ACCORDANCE WITH SAN BERNARDINO COUNTY ROAD DEPARTMENT STANDARD PLAN 303

13 NO DIVING SIGN  
NOT TO SCALE

95% PROGRESS SET  
NOT FOR CONSTRUCTION