

NAVAL UNDERSEA WARFARE CENTER P-112V ADDITION TO BUILDING 1176

NEWPORT, RHODE ISLAND

OWNER / APPLICANT:



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC

CIVIL ENGINEER:



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

ARCHITECT:

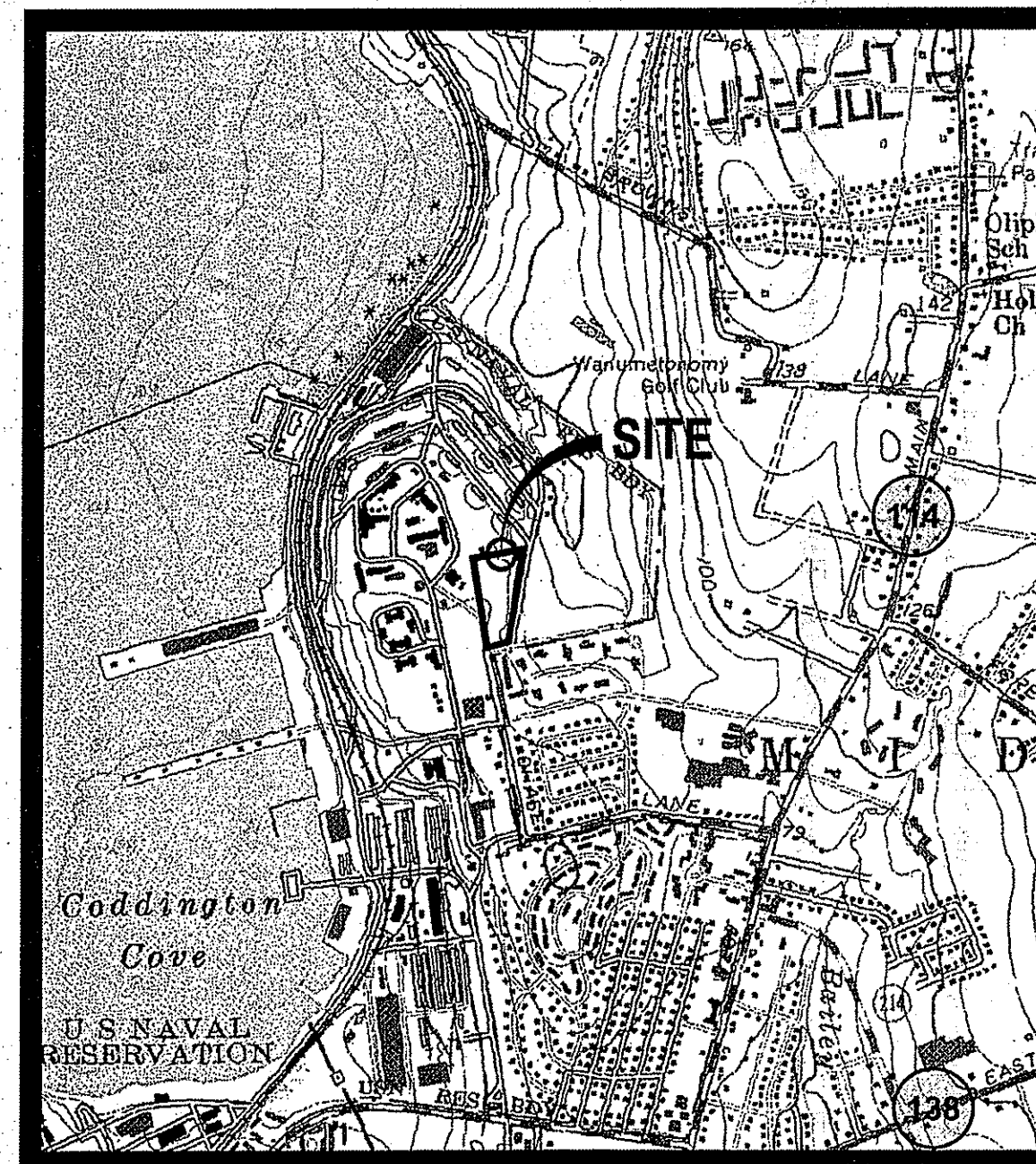
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ARCHITECTS

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Providence, RI 02903-1082 Fax (401) 331-9270
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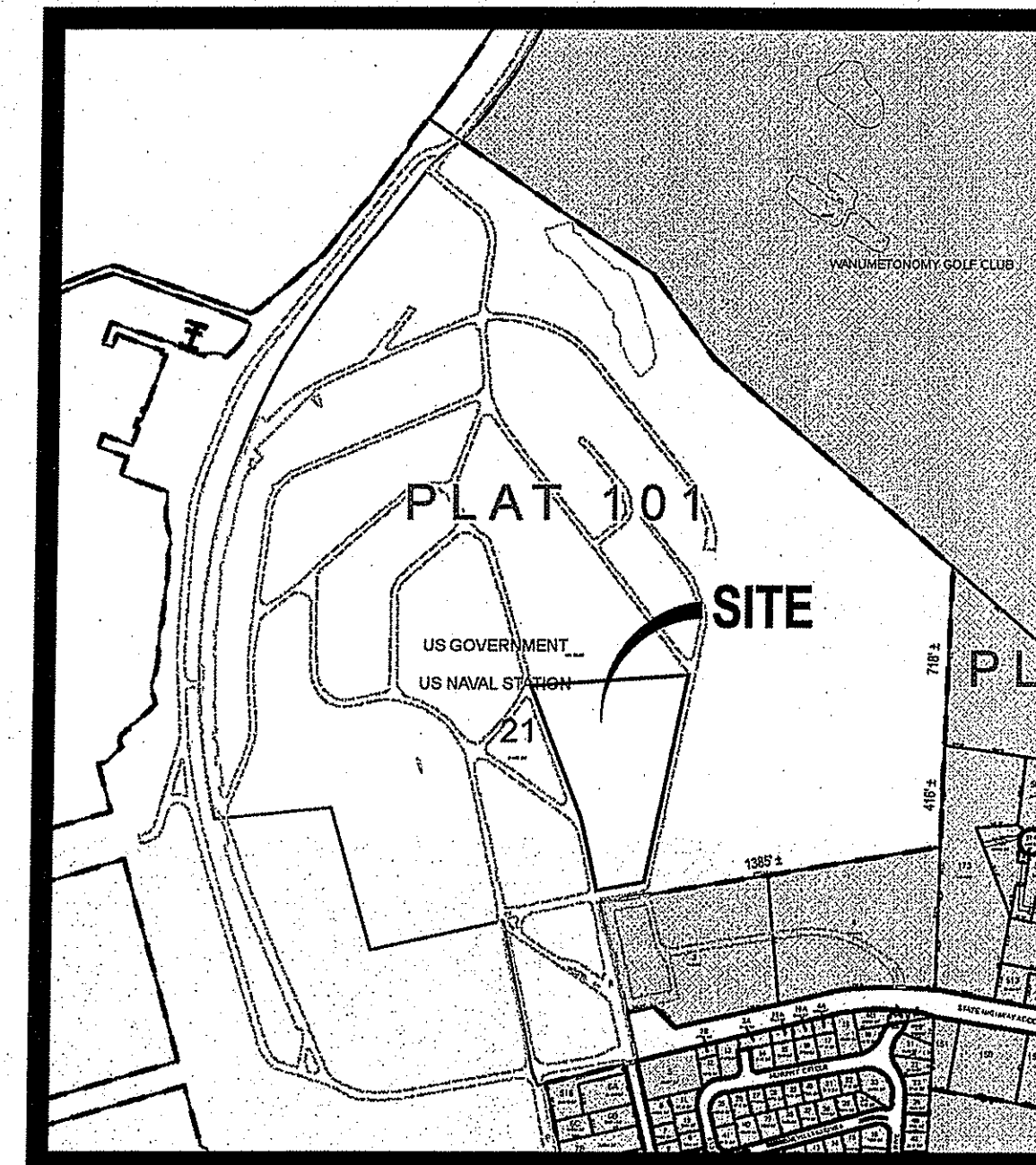
CONTRACTOR:

H.V. COLLINS
COMPANY
Construction Managers

99 GANO STREET
PROVIDENCE, RHODE ISLAND 02906
Tel. (401) 421-4079
Fax. (401) 421-9297



SCALE: N.T.S.

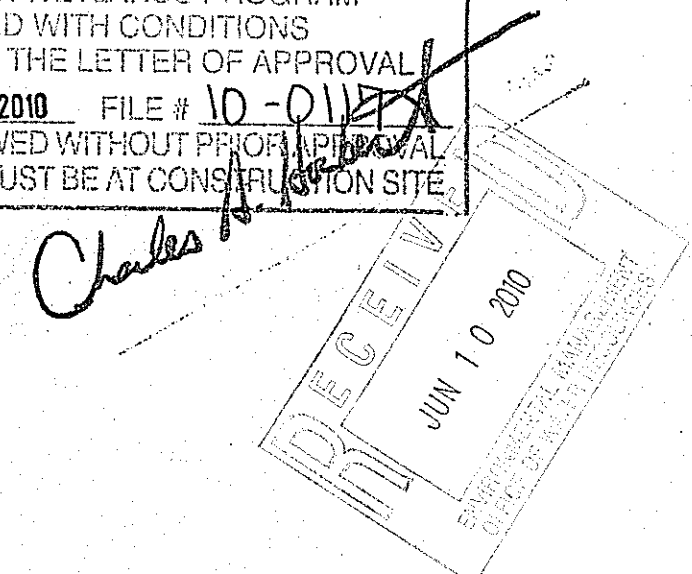


SCALE: N.T.S.

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 12 2010 FILE # 10-0117A
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



**RIDEM PRELIMINARY PERMIT SUBMISSION
JUNE 1, 2010**

REFERENCE

- 1. EXISTING CONDITION AND PROPERTY LINE INFORMATION TAKEN FROM PLAN ENTITLED, "EXISTING SITE CONDITIONS" FOR THE NAVAL UNDERSEA WARFARE CENTER, MIDDLETOWN, RI, PREPARED BY FAY, SPOFFORD, & THORNDIKE OF BURLINGTON, MA.
2. FIELD SURVEY LOCATING WETLAND FLAGS AND ADDITIONAL UTILITIES WAS CONDUCTED FOR THE NAVAL UNDERSEA WARFARE CENTER IN MIDDLETOWN, RI, BY PARE CORPORATION ON DECEMBER 14, 2009 AND MAY 13, 2010.

GENERAL NOTES

- 1. THE SITE IS LOCATED IN MIDDLETOWN, RI AND OWNED BY THE DEPARTMENT OF THE NAVY.
2. ALL WORK SHALL CONFORM TO THE LATEST REVISION OF THE UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGS).
3. THE STATE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES CONSTRUCTION, 2004 EDITION OR LATEST REVISION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.
4. OPERATIONS WITHIN BUILDING 1176, 147, AND 1251 SHALL CONTINUE THROUGHOUT CONSTRUCTION.
5. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND ARCHITECT AS REQUIRED.
6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY.
7. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR IS TO IMMEDIATELY CONTACT AND COORDINATE WITH THE ENGINEER AND OWNER.
8. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
9. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT.
10. ALL UTILITIES (LOCATION AND ELEVATION) SHOWN SHALL BE CONSIDERED APPROXIMATE ONLY.
11. CONTRACTOR SHALL SEQUENCE WORK TO MAINTAIN ACCESS TO BUILDING BY FORKLIFT THROUGHOUT CONSTRUCTION.

LAYOUT NOTES

- 1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. EACH HANDICAP PARKING SPACE SHALL BE IDENTIFIED BY A SIGN LOCATED AT THE BACK OF THE WALKWAY.
3. DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB.
4. ACCESSIBLE RAMPS SHALL BE PER THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES.
5. CENTER WALKWAYS ON DOORWAYS THEY SERVE.
6. CONTRACTOR TO PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK PRIOR TO CONSTRUCTION.
7. THE PROPOSED WALKWAYS SHALL HAVE A MINIMUM CROSS SLOPE OF 2% AND RUNNING SLOPE OF 5% AS SHOWN ON THE CONSTRUCTION DETAILS AND GRADING PLAN.

STORMWATER MANAGEMENT SYSTEM INSPECTION AND MAINTENANCE NOTES

DURING CONSTRUCTION

- 1. THE CONTRACTOR SHALL REMOVE SEDIMENT AND DEBRIS FROM ALL CATCH BASINS, MANHOLES, AND THE RAIN GARDEN ON A ROUTINE BASIS, IMMEDIATELY FOLLOWING SITE STABILIZATION AND PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
2. ANY ACCUMULATION OF PONDING WATER IN AREAS WITHIN THE LIMITS OF DISTURBANCE, OTHER THAN DESIGNATED AREAS, SHALL BE REMOVED ACCORDINGLY AND PREVENTED IN THE FUTURE.
3. PLANTINGS AND GRASSES MUST BE PLANTED AROUND DETENTION BASINS IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE THE SLOPES AND PREVENT EROSION.
4. SIDE-SLOPES AND EMBANKMENTS OF THE RAIN GARDEN SHALL BE MOWED AT LEAST ONCE WITHIN THE MONTH OF APRIL AND ONCE WITHIN THE MONTH OF SEPTEMBER BY THE OWNER TO PREVENT UNWANTED WOODY GROWTH.

POST CONSTRUCTION

- 1. TRASH, LITTER, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORM WATER FACILITY (INCLUDING CATCH BASINS, MANHOLES, INLET AND OUTLET STRUCTURES, AND THE RAIN GARDEN) AT LEAST TWICE A YEAR, ONCE DURING THE MONTH OF APRIL AND ONCE IN THE MONTH OF OCTOBER, BY THE OWNER.
2. THE PARKING LOT AND ENTRY DRIVES SHALL BE SWEEPED BY THE OWNER ONCE DURING THE MONTH OF APRIL AND ONCE DURING THE MONTH OF OCTOBER TO REMOVE SEDIMENTS.
3. ALL CLEANING AND MAINTENANCE OF DRAINAGE SYSTEM BMP'S SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
4. SIDE-SLOPES AND EMBANKMENTS OF THE RAIN GARDEN SHALL BE MOWED AT LEAST ONCE WITHIN THE MONTH OF APRIL AND ONCE WITHIN THE MONTH OF SEPTEMBER BY THE OWNER TO PREVENT UNWANTED WOODY GROWTH.
5. SEDIMENTS SHOULD BE REMOVED FROM THE RAIN GARDEN BY THE OWNER DURING THE FIRST (INITIAL) YEAR OF OPERATION AND EVERY 10 YEARS THEREAFTER.
6. THE RAIN GARDEN OUTLET STRUCTURE AND ALL OUTFLOW CHANNELS SHOULD BE INSPECTED ANNUALLY BY THE OWNER.
7. THE GRESSED AREAS OF THE RAIN GARDEN SHOULD BE INSPECTED AT LEAST TWICE PER YEAR BY THE OWNER, PREFERABLY ONCE IN THE SPRING AND ONCE IN THE FALL, TO CHECK FOR EROSION PROBLEMS.
8. THE RAIN GARDEN AREA SHALL BE INSPECTED AFTER EVERY MAJOR STORM OF 1 INCH OR GREATER FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE.

DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, UTILITY, LANDSCAPING, AND ARCHITECTURAL DRAWINGS.
2. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. CONTRACTOR TO COORDINATE ALL UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, ARCHITECT AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.

ARCHITECTURAL GENERAL NOTES:

- 1. UNO, ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, FACE OF MASONRY, FACE OF CONC, FACE OF STEEL WALL PANEL OR TO CENTERLINE OF COLUMN AS OCCURS.
2. REFER TO DWG A-000 FOR WALL TYPES, SYMBOLS, LEGEND AND ABBREVIATIONS.
3. MAINTAIN INTEGRITY OF FIRE RATED WALL ASSEMBLIES, NON-RATED WALL ASSEMBLIES SHALL ABUT.
4. UNLESS OTHERWISE NOTED, ALL WALL TYPE FRAMING & INSULATION ASSEMBLIES (AS OCCURS) SHALL EXTEND TIGHT TO UNDERSIDE OF ROOF DECK ABOVE. - BRACE ALL WALL TYPE FRAMING AS REQUIRED.

- 5. ALL FIRE RATED WALLS SHALL BE FIRE SEALED AT THEIR PERIMETER. ALL PENETRATIONS THROUGH FIRE RATED WALLS, SMOKE PARTITIONS, FLOORS & ROOF ASSEMBLIES SHALL BE FIRE SEALED WITH AN APPROPRIATE THROUGH - PENETRATION SYSTEM. REFER TO SPECIFICATION 078413 FOR REQUIREMENTS.
6. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL WALL TYPES LOCATED AT BATHROOMS, CONNECTOR ADDITION, OR ADJACENT TO PLUMBING FIXTURES AS OCCURS.
7. PROVIDE BULLNOSE EDGE AT ALL INTERIOR CMU WALLS AT EXTERNAL CORNER LOCATIONS.

EROSION AND SEDIMENTATION CONTROL NOTES

- 1. SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK", THE RIPDES GENERAL PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION ACTIVITY, AND THE PROJECT STORM WATER POLLUTION PREVENTION PLAN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING OR INSTALLING ALL TEMPORARY SEDIMENT AND EROSION CONTROLS AS SHOWN ON THESE PLANS AND SHALL MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD UNTIL THE SITE IS STABILIZED.
3. DETENTION BASINS SHALL BE CONSTRUCTED DURING THE FIRST PHASE OF EARTHWORK AND SHALL BE UTILIZED AS SEDIMENT BASINS DURING CONSTRUCTION.
4. TEMPORARY DIVERSION SWALES SHALL BE PROVIDED AS NECESSARY TO DIRECT RUNOFF TO THE SEDIMENT BASINS DURING CONSTRUCTION.
5. ANTI-TRACKING PADS SHALL BE PROVIDED AT ALL POINTS OF EGRESS OR INGRESS AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
6. EROSION CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
7. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO INSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT.
8. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
9. THE CONTRACTOR SHALL CLEAN AND MAINTAIN EROSION CONTROL BARRIER WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE HAYBALES OR ONE THIRD THE HEIGHT OF SILT FENCE.
10. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUB GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING.
11. INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS.
12. REQUIRED SEDIMENTATION CONTROL FACILITIES MUST BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK.
13. THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES OR ROUTINE MAINTENANCE.
14. CATCH BASINS AND STORM DRAIN INLETS SHALL BE PROTECTED WITH HAY BALES OR SEDIMENT BAGS IN PAVED AREAS.
15. DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO HAY BALE CORRALS OR SEDIMENTATION BAGS OUTSIDE ALL WETLAND AREAS.
16. THE CONTRACTOR SHALL NOT REMOVE ANY HAY BALES, SILT FENCE OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
17. CONSTRUCTION SITE WASTE MATERIALS WILL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
18. RIP-RAP OR OTHER ENERGY DISSIPATORS WILL BE USED WHERE NECESSARY TO PREVENT SCOUR.
19. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS UPON COMPLETION OF WORK IN THAT AREA.
20. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE OF FINAL PROJECT.
21. NEWLY VEGETATED AREAS SHALL BE MAINTAINED REGULARLY TO ENSURE STABLE VEGETATED SURFACES.
22. EROSION AND SEDIMENTATION CONTROLS WILL BE UTILIZED AS SHOWN ON THE PLANS. POTENTIAL EROSION AND SEDIMENTATION PROBLEMS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT WILL BE AVOIDED THROUGH THE PROJECT SCHEDULING AND THE USE OF APPROPRIATE STANDARD CONTROLS AS ILLUSTRATED ON THE PROJECT PLANS.

GRADING AND UTILITY NOTES

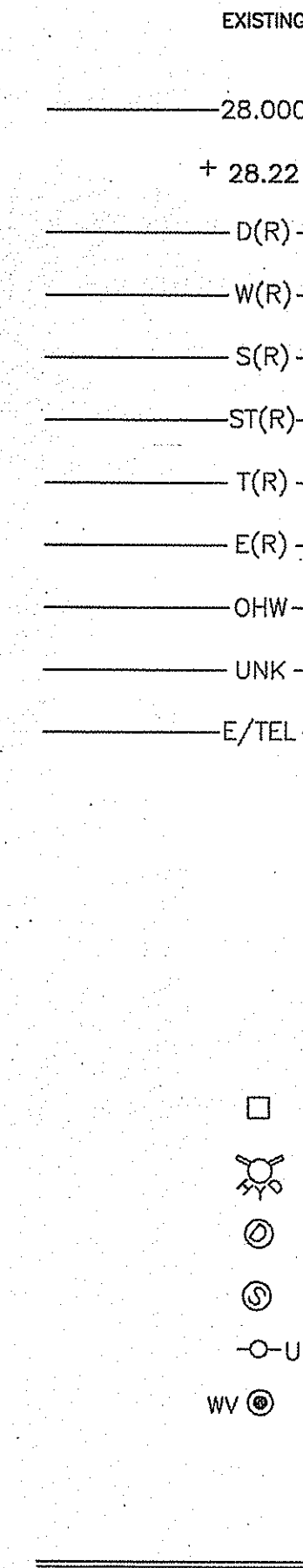
- 1. UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS.
3. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS.
4. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ADJUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
5. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE.
6. FINAL CONCRETE MECHANICAL EQUIPMENT PAD SIZES, LOCATIONS AND DETAILING TO BE COORDINATED WITH EQUIPMENT SUPPLIER AND PROJECT ENGINEER.
7. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
8. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
9. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION.
10. ELECTRIC, AND COMMUNICATIONS ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY APPROPRIATE UTILITY COMPANIES.
11. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
12. ALL GRAVITY SANITARY PIPING SHALL BE SDR-35 PVC.
13. ALL WATER LINE BENDS SHALL BE REINFORCED WITH THRUST BLOCKS.
14. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND.
15. PITCH EVENLY BETWEEN SPOT GRADES.
16. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS AND GRADING PLAN.
17. ALL RCP DRAIN LINES SHALL BE CLASS IV UNLESS NOTED OTHERWISE.
18. ALL WATER MAINS SHALL BE DOUBLE CEMENT-LINED CLASS 52 DUCTILE IRON UNLESS NOTED OTHERWISE.

GENERAL NOTES:

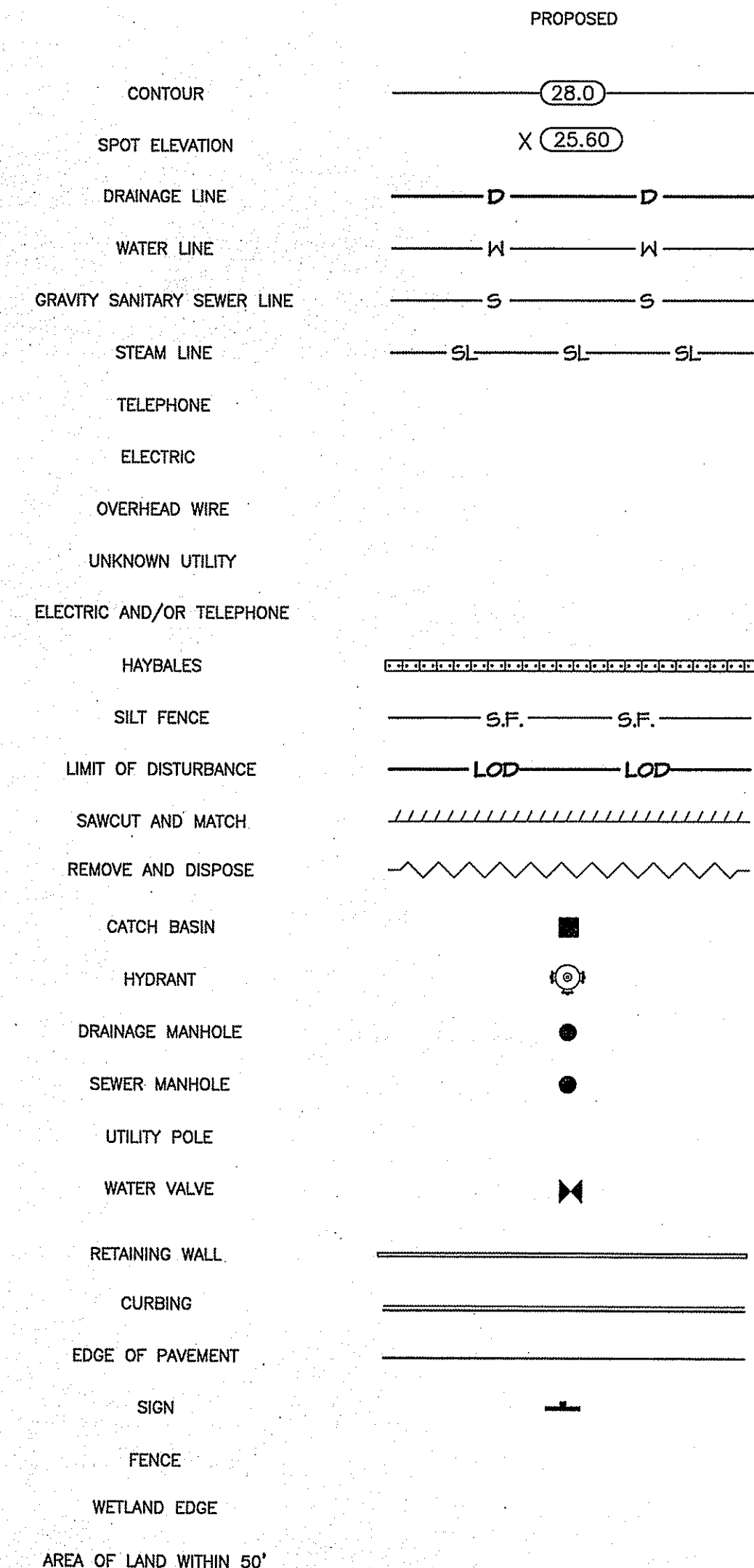
- 1. CONTRACTOR SHALL VISIT SITE, PRIOR TO BID, AND CAREFULLY INVESTIGATE AND EXAMINE THE AREA OF WORK SO AS TO SATISFY THEMSELVES AS TO THE NATURE AND LOCATION OF THE WORK.
2. DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

LEGEND

- (BC) = BITUMINOUS CONCRETE CURB - SEE DETAIL
(BC3) = BITUMINOUS CONCRETE TRANSITION OVER 3'
(BOL) = BOLLARD - SEE DETAIL
(CM) = SAWCUT AND MATCH
(CS) = CONCRETE SIDEWALK - SEE DETAIL
(CW) = CROSSWALK - SEE DETAIL
(GC) = GRANITE CURB - SEE DETAIL
(GR) = GUARDRAIL - SEE DETAIL
(HCR) = HANDICAP ACCESSIBLE RAMP - SEE DETAIL
(P) = BITUMINOUS CONCRETE PAVEMENT - SEE DETAIL
(R&D) = REMOVE AND DISPOSE
(R&R) = REMOVE AND RESET
(R&S) = REMOVE AND STOCKPILE
(SHP) = HANDICAP PARKING PAVEMENT MARKING
(SW4) = 4" SOLID WHITE EPOXY RESIN PAVEMENT MARKING
(SW12) = 12" SOLID WHITE EPOXY RESIN PAVEMENT MARKING



LEGEND



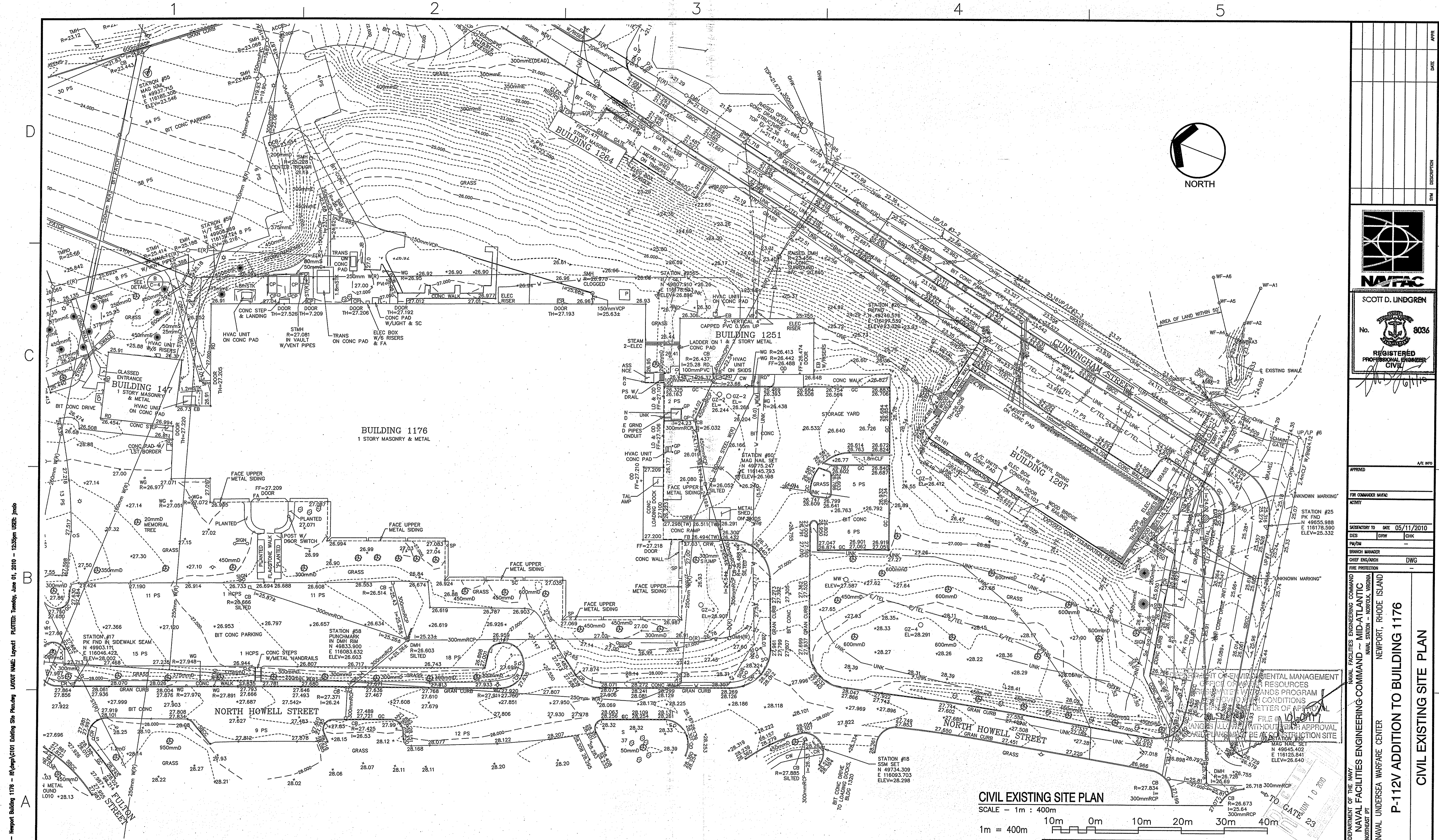
- ASSF = AREA SUBJECT TO STORM FLOWAGE
BIT = BITUMINOUS
BM = BENCHMARK
CB = 4' DIA. CATCH BASIN UNLESS OTHERWISE NOTED
CI = CAST IRON
CL = CLASS
CLD = CEMENT-LINED DUCTILE IRON
C.O. = CLEANOUT
CONC. = CONCRETE
CRMC = COASTAL RESOURCE MANAGEMENT COUNCIL
C.S. = CORPORATION STOP WITH VALVE BOX SET TO FINISH GRADE
DMH = DRAIN MANHOLE
ELEV. = ELEVATION
EOP = EDGE OF PAVEMENT
EXIST. = EXISTING
EXCB = EXISTING CATCH BASIN
EXDMH = EXISTING DRAIN MANHOLE
FEE = FINISH FLOOR ELEVATION
FND. = FOUND
G.F.A. = GROSS FLOOR AREA
GRAN. = GRANITE
GTD = GRADE TO DRAIN
HDPE = HIGH DENSITY POLYETHYLENE
HYD = HYDRANT
INV. = INVERT
L.O.D. = LIMIT OF DISTURBANCE
LP = LIGHT POLE
MAX. = MAXIMUM
MIN. = MINIMUM
MON. = MONITORING
PE = POLYETHYLENE
PERF. = PERFORATED
PVC = POLYVINYL CHLORIDE
RCP = REINFORCED CONCRETE PIPE
RIDEM = RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
R.I.D.O.T. = RHODE ISLAND DEPARTMENT OF TRANSPORTATION
R.I. STD. = RHODE ISLAND STANDARD
SDR = STANDARD DIMENSIONAL RATIO
S.F. = SILT FENCE
SMH = SEWER MANHOLE
TD = TRENCH DRAIN
TP = TEST PIT
(TYP.) = TYPICAL
UP = UTILITY POLE
VCC = VERTICAL CONCRETE CURB
VGC = VERTICAL GRANITE CURB
W/ = WITH
WF = WETLAND FLAG
YD = YARD DRAIN

REVISED 100% PRE-FINAL SUBMISSION - 05/11/10

Logos for PARE CORPORATION, Edward Rowse ARCHITECTS, and H.V. COLLINS COMPANY. Includes contact information for each firm.

Professional Engineer information for Scott D. Lindgren, No. 8036, REGISTERED PROFESSIONAL ENGINEER CIVIL. Includes project details: P-112V ADDITION TO BUILDING 1176, CIVIL NOTES & LEGEND, and drawing number C100.

FILE NAME: G:\06060000\NAVFAC - Newport Building 1176 - RI\06060100 Notes & Legend.dwg PLOTTED: Tuesday, June 01, 2010 - 10:06am USER: jmes



FILE NAME: G:\050600 MWAC - Newport Building 1176 - R\Plans\C101 Existing Site Plan.dwg LAYOUT NAME: Layout1 PLOTTED: Tuesday, June 01, 2010 - 12:55pm User: pld

ARCHITECTURAL GENERAL NOTES:

- UNO, ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, FACE OF MASONRY, FACE OF CONG, FACE OF STEEL WALL PANEL OR TO CENTERLINE OF COLUMN AS OCCURS.
- REFER TO DWG A-000 FOR WALL TYPES, SYMBOLS, LEGEND AND ABBREVIATIONS.
- MAINTAIN INTEGRITY OF FIRE RATED WALL ASSEMBLIES. NON-RATED WALL ASSEMBLIES SHALL ABUT. - ALL FIRE RATED & SMOKE PARTITION WALL TYPE ASSEMBLIES SHALL EXTEND TIGHT TO THE UNDERSIDE OF ROOF DECK ABOVE AS OCCURS.
- UNLESS OTHERWISE NOTED, ALL WALL TYPE FRAMING & INSULATION ASSEMBLIES (AS OCCURS) SHALL EXTEND TIGHT TO UNDERSIDE OF ROOF DECK ABOVE. - BRACE ALL WALL TYPE FRAMING AS REQUIRED.

GENERAL NOTES:

- ALL FIRE RATED WALLS SHALL BE FIRE SEALED AT THEIR PERIMETER. ALL PENETRATIONS THROUGH FIRE RATED WALLS, SMOKE PARTITIONS, FLOORS & ROOF ASSEMBLIES SHALL BE FIRE SEALED WITH AN APPROPRIATE THROUGH - PENETRATION SYSTEM. REFER TO SPECIFICATION 078413 FOR REQUIREMENTS.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL WALL TYPES LOCATED AT BATHROOMS, CONNECTOR ADDITION, OR ADJACENT TO PLUMBING FIXTURES AS OCCURS.
- PROVIDE BULLNOSE EDGE AT ALL INTERIOR CMU WALLS AT EXTERNAL CORNER LOCATIONS.

CIVIL EXISTING SITE PLAN
 SCALE - 1m : 400m
 1m = 400m

10m 0m 10m 20m 30m 40m

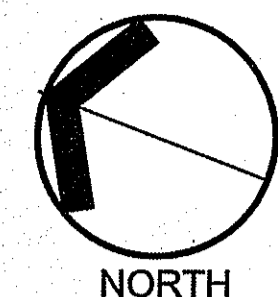
REVISED 100% PRE-FINAL SUBMISSION - 05/11/10		SCALE: 1m = 400m
115 Cedar Street Providence, RI 02903-1082 Massachusetts Office (401) 331-9200 (401) 331-9270 (508) 252-5446		99 GANO STREET, PROVIDENCE, RHODE ISLAND 02909 Tel. (401) 451-6076 Fax. (401) 451-6077
PROJECT NO.: 543292 CONSTR. CONTR. NO.: N40085-09-c-c-7010 NAVFAC DRAWING NO.: 12557447		SHEET 2 OF 10 C101 <small>DATEPLOT REVISION: 10 MARCH 2009</small>

DATE	APPR
DESCRIPTION	SM
SCOTT D. LINDGREN No. 8036 REGISTERED PROFESSIONAL ENGINEER CIVIL	

APPROVED	A/E INFO
FOR COMMANDER NAVFAC	ACTIVITY
SUBJECTORY TO DATE	05/11/2010
DES	DRW
PM/DM	CHK
BRANCH MANAGER	DWG
CHIEF ENR/ARCH	DWG
FIRE PROTECTION	

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
 NAVAL STATION - NORFOLK, VIRGINIA
 NEWPORT, RHODE ISLAND
 NAVAL UNDERSEA WARFARE CENTER

P-112V ADDITION TO BUILDING 1176
 CIVIL EXISTING SITE PLAN



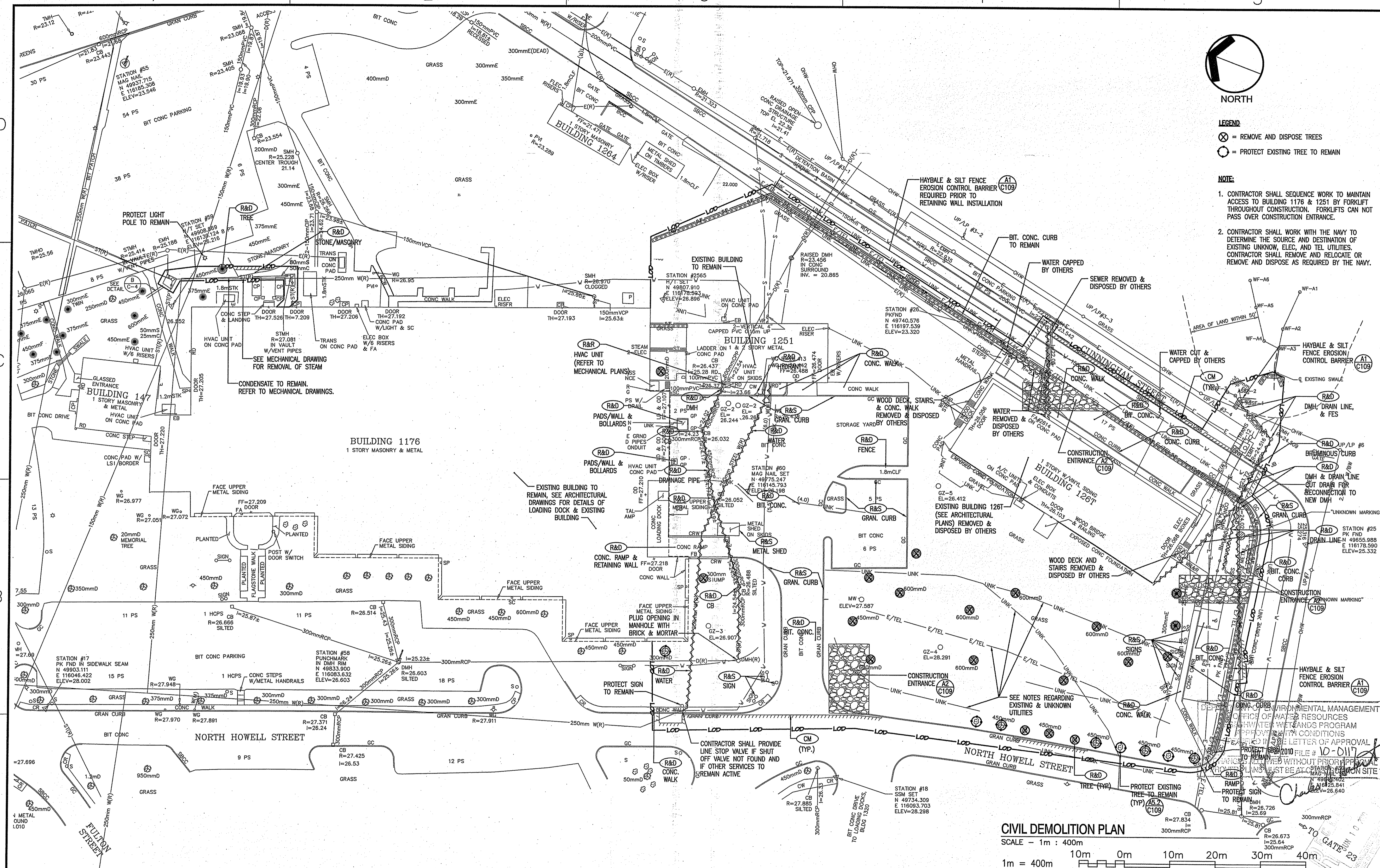
NORTH

LEGEND:

- ⊗ = REMOVE AND DISPOSE TREES
- = PROTECT EXISTING TREE TO REMAIN

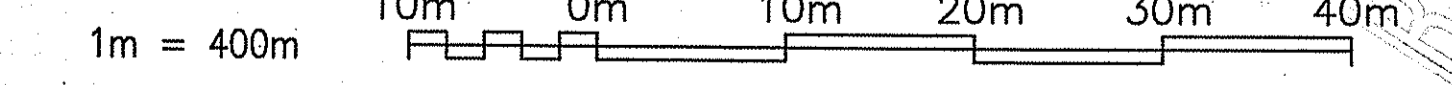
NOTE:

- CONTRACTOR SHALL SEQUENCE WORK TO MAINTAIN ACCESS TO BUILDING 1176 & 1251 BY FORKLIFT THROUGHOUT CONSTRUCTION. FORKLIFTS CAN NOT PASS OVER CONSTRUCTION ENTRANCE.
- CONTRACTOR SHALL WORK WITH THE NAVY TO DETERMINE THE SOURCE AND DESTINATION OF EXISTING UNKNOWN, ELEC, AND TEL UTILITIES. CONTRACTOR SHALL REMOVE AND RELOCATE OR REMOVE AND DISPOSE AS REQUIRED BY THE NAVY.



CIVIL DEMOLITION PLAN

SCALE - 1m : 400m



- ARCHITECTURAL GENERAL NOTES:**
- UNO, ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, FACE OF MASONRY, FACE OF CONC, FACE OF STEEL WALL PANEL OR TO CENTERLINE OF COLUMN AS OCCURS.
 - REFER TO DWG A-000 FOR WALL TYPES, SYMBOLS, LEGEND AND ABBREVIATIONS.
 - MAINTAIN INTEGRITY OF FIRE RATED WALL ASSEMBLIES, NON-RATED WALL ASSEMBLIES SHALL ABUT. - ALL FIRE RATED & SMOKE PARTITION WALL TYPE ASSEMBLIES SHALL EXTEND TIGHT TO THE UNDERSIDE OF ROOF DECK ABOVE AS OCCURS.
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GENERAL NOTES:

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- DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

DATE	DESCRIPTION

SCOTT D. LINDGREN
No. 8036
REGISTERED PROFESSIONAL ENGINEER
CIVIL

APPROVED: *[Signature]* 6/1/10

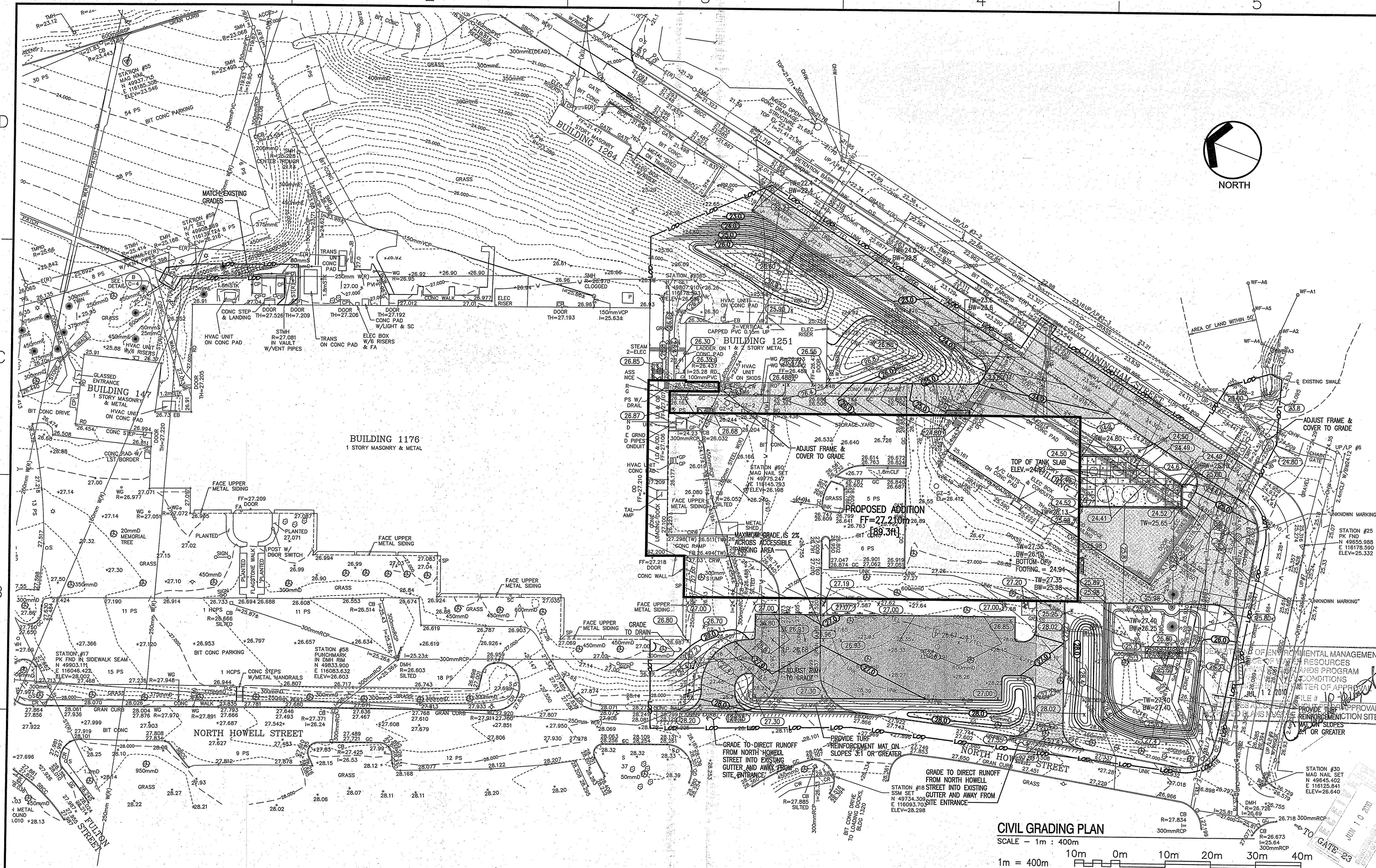
FOR COMMANDER NAVFAC	ACTIVITY
SATISFACTORY TO DATE 05/11/2010	DES
PK/DW	CHK
BRANCH MANAGER	DWG
CHIEF ENGINEER	DWG
FIRE PROTECTION	DWG

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NAVAL STATION - NORFOLK, VIRGINIA
NAVAL UNDERSEA WARFARE CENTER
NEWPORT, RHODE ISLAND

P-112V ADDITION TO BUILDING 1176
CIVIL DEMOLITION PLAN

SCALE: 1m = 400m
EPIROTECH NO. 543292
CONSTR. CONTR. NO. NA0085-09-c-9701
NAVFAC DRAWING NO. 12557448
SHEET 3 OF 10
C102
DRAWING REVISION: 10 MARCH 2009

FILE NAME: G:\06063.00 NAVFAC - Newport Building 1176 - R\112V\112V Demolition Planning LAYOUT NAME: Layout1 PLOTTED: Tuesday, June 01, 2010 - 10:07am USER: jmb



CIVIL GRADING PLAN
 SCALE - 1m = 400m

1m = 400m

ARCHITECTURAL GENERAL NOTES:

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REVISED 100% PRE-FINAL SUBMISSION - 05/11/10

Edward Rowse ARCHITECTS
 115 Cedar Street
 Providence, RI 02903-1082
 (401) 331-9200
 (401) 331-9270

H.V. COLLINS COMPANY
 Construction Managers
 99 GARDEN STREET
 PROVIDENCE, RHODE ISLAND 02909
 TEL: (401) 481-6979
 FAX: (401) 481-6987

APPROVED	DATE	DESCRIPTION	BY

NAVAC

SCOTT D. LINDGREN
 No. 8036
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

DATE: 6/1/10

FOR CHAIRMAN: N/A
 ACTIVITY: N/A

DESIGNED BY: DME 05/11/2010
 CHECKED BY: DME
 DRAWN BY: DME
 PROJECT MANAGER: DME
 CHIEF ENGINEER/ARCHITECT: DME
 FIRE PROTECTION: DME

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
 NAVAL UNDERSEA WARFARE CENTER
 NEWPORT, RHODE ISLAND

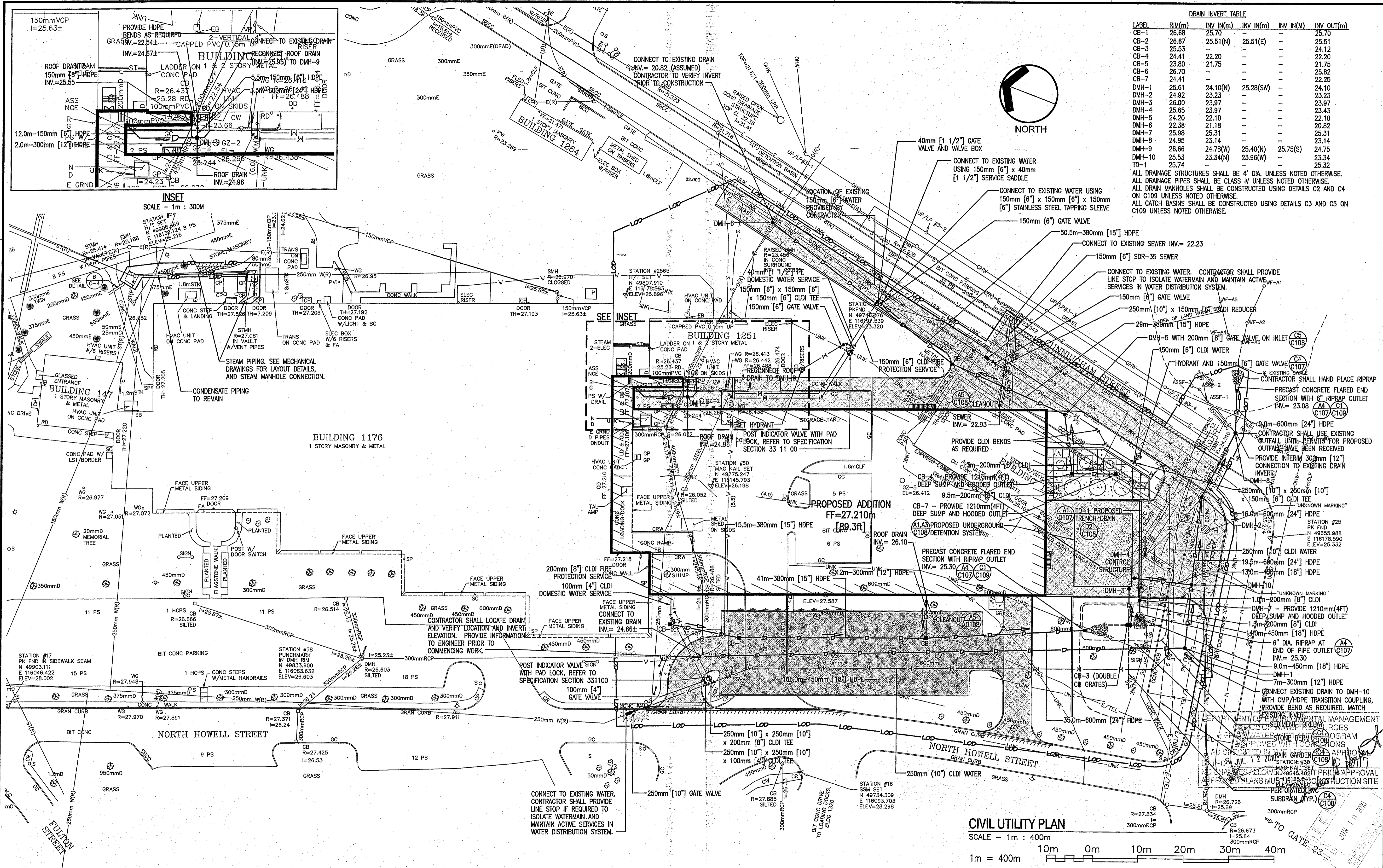
P-112V ADDITION TO BUILDING 1176
CIVIL GRADING PLAN

SCALE: 1m = 400m
 PROJECT NO.: 543292
 CONSTR. CONTR. NO.: N40085 - 09 - C - 7010
 NAVAC DRAWING NO.: 12557450
 SHEET 5 OF 10

C104

DATE/TIME REVISION: 10 MARCH 2009

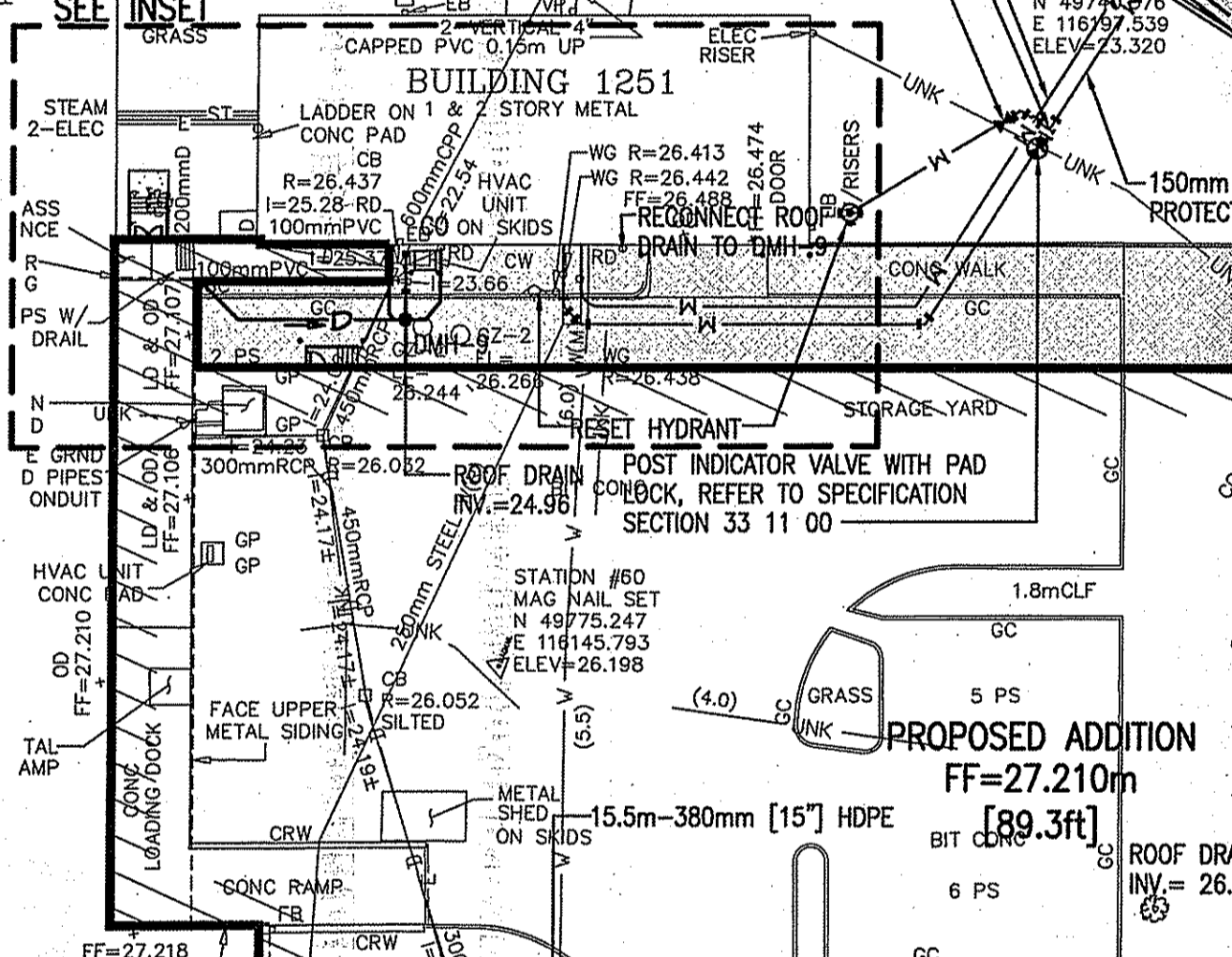
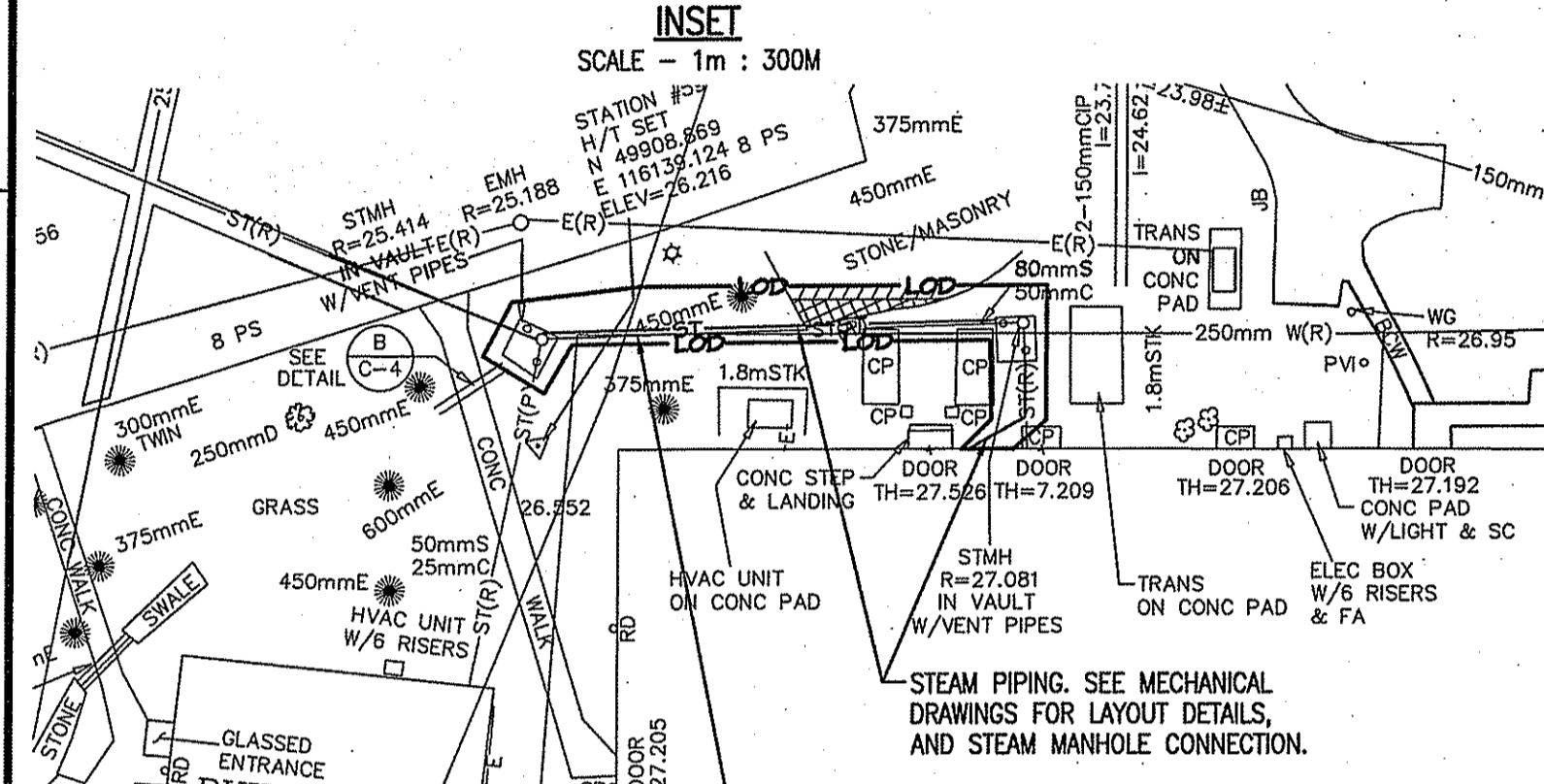
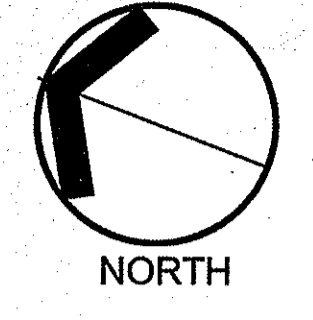
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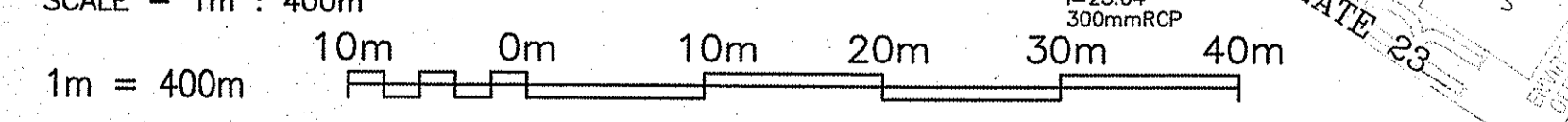
DRAIN INVERT TABLE

LABEL	RIM (m)	INV IN (m)	INV IN (m)	INV OUT (m)
CB-1	26.68	25.70	-	25.70
CB-2	26.67	25.51(N)	25.51(E)	25.51
CB-3	25.53	-	-	24.12
CB-4	24.41	22.20	-	22.20
CB-5	23.80	21.75	-	21.75
CB-6	26.70	-	-	25.82
CB-7	24.41	-	-	22.20
DMH-1	25.61	24.10(N)	25.28(SW)	24.10
DMH-2	24.92	23.23	-	23.23
DMH-3	26.00	23.97	-	23.97
DMH-4	25.65	23.97	-	23.43
DMH-5	24.20	22.10	-	22.10
DMH-6	22.38	21.18	-	20.82
DMH-7	25.98	25.31	-	25.31
DMH-8	24.95	23.14	-	23.14
DMH-9	26.66	24.78(W)	25.40(N)	24.75
DMH-10	25.53	23.34(N)	23.96(W)	23.34
TD-1	25.74	-	-	25.32

ALL DRAINAGE STRUCTURES SHALL BE 4' DIA. UNLESS NOTED OTHERWISE.
 ALL DRAINAGE PIPES SHALL BE CLASS IV UNLESS NOTED OTHERWISE.
 ALL DRAIN MANHOLES SHALL BE CONSTRUCTED USING DETAILS C2 AND C4 ON C109 UNLESS NOTED OTHERWISE.
 ALL CATCH BASINS SHALL BE CONSTRUCTED USING DETAILS C3 AND C5 ON C109 UNLESS NOTED OTHERWISE.



CIVIL UTILITY PLAN
SCALE - 1m : 400m



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REVISED 100% PRE-FINAL SUBMISSION - 05/11/10

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
4 BRACEDON VALLEY PLACE
LINCOLN, RI 02885
(401) 331-4100

Edward Rowe
ARCHITECTS
115 Cedar Street
Providence, RI 02903-1082
Massachusetts Office
(508) 252-8446
e-mail: rowe@edwardrowearch.com

H.V. COLLINS
CONSTRUCTION COMPANY
Construction Managers
99 GARD STREET
PROVIDENCE, RHODE ISLAND 02908
Tel: (401) 421-4297

APPR. DATE

SCOTT D. LINDGREN
No. 8036
REGISTERED PROFESSIONAL ENGINEER
CIVIL

A/E REF.

FOR COMMANDER NAFAC

ACTIVITY

SAFACTORY TO DATE 05/11/2010

DES. DRAW. CHK.

FW/DW

SEARCH MANAGER

CHIEF ENG/ARCH. DWG

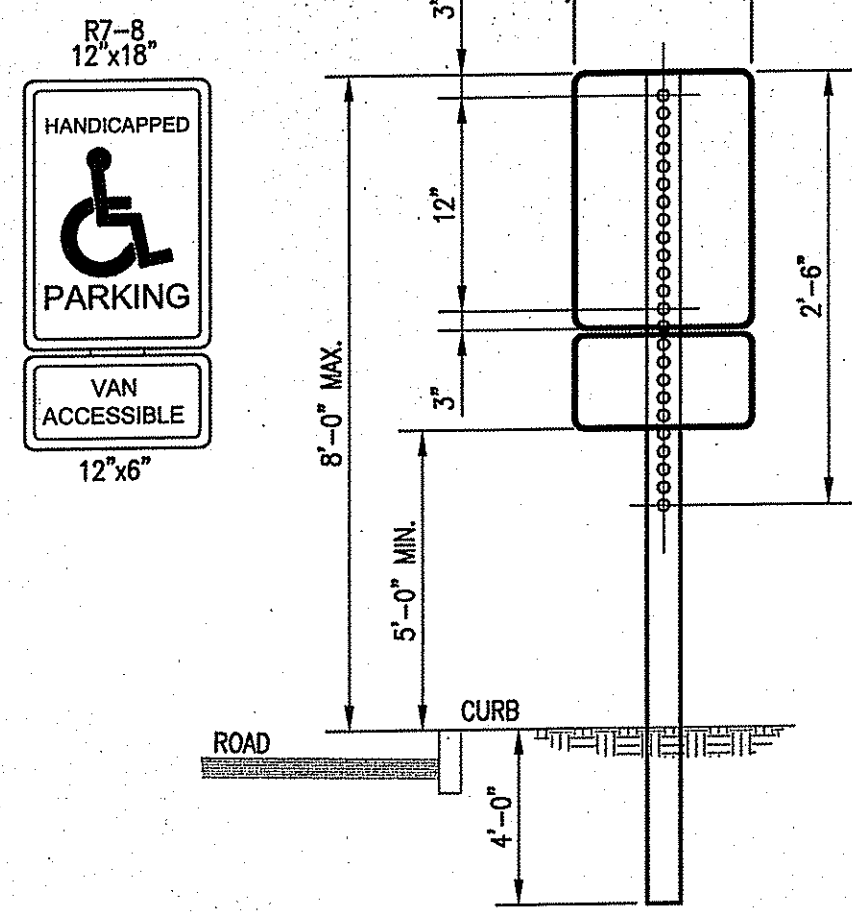
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NAVAL STATION - NORFOLK, VIRGINIA
NEWPORT, RHODE ISLAND

P-112V ADDITION TO BUILDING 1176
CIVIL UTILITY PLAN

SHEET 6 OF 10
C105

DRAWING REVISION: 10 MARCH 2009

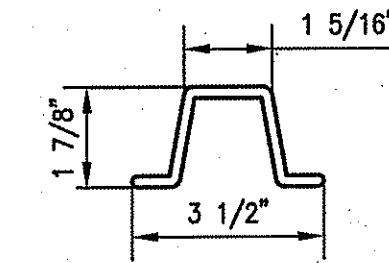


NOTE:

5/16" x 2-1/2" GALVANIZED BOLTS & WASHERS

STEEL SPECIFICATION - A.S.T.M. DESIGNATION A499-84 ZINC (HOT GALVANIZED) SPECIFIED BY - A.S.T.M. A 123.

WT./FT.	3.00	#
Mom. Ix-x	0.484in	4
Sec Mod x-x	0.569in	4
Mom Iy-y	0.886in	4
Sec Mod y-y	0.506in	3



PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° A LINE PARALLEL TO THE FLOW OF TRAFFIC.

SIGN MOUNTING NOTES:

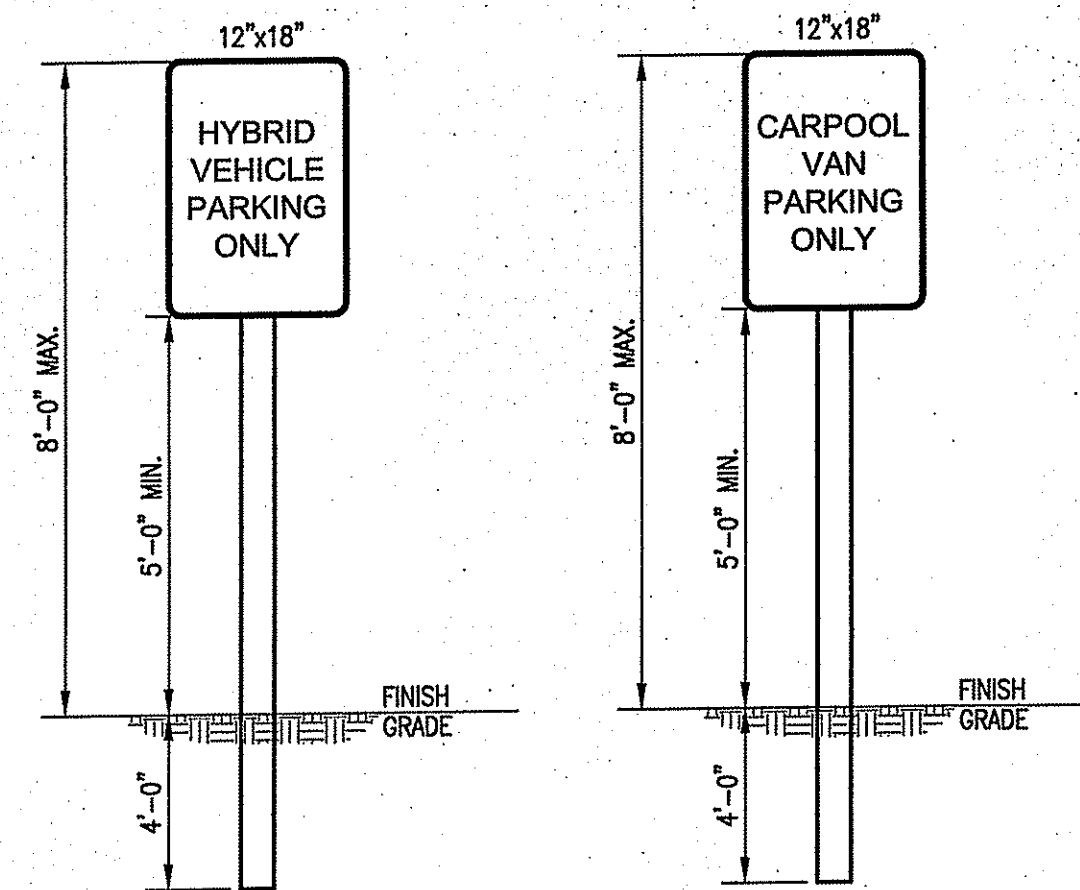
1. ALL LAG SCREWS, BOLTS AND WASHERS SHALL BE GALVANIZED 5/16"x2 1/2" LONG UNLESS OTHERWISE NOTED.
2. WASHERS SHALL BE 0.07" THICK.
3. ALL SIGN COLORS, RADII AND BORDERS AS SPECIFIED IN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

HANDICAP SIGN NOTES:

1. ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS AS SPECIFIED BY THE AMERICAN DISABILITIES ACT (ADA)
2. SIGN(S) SHALL BE LOCATED SO THEY CANNOT BE OBTSCURED BY A VEHICLE PARKED IN THE SPACE.
3. FOR HANDICAPPED VAN SPACE USE SIGN AS DETAILED.
4. FOR HANDICAPPED SPACE FOR AUTOMOBILES USE ONLY HANDICAPPED PARKING SIGN.

SIGN MOUNTING

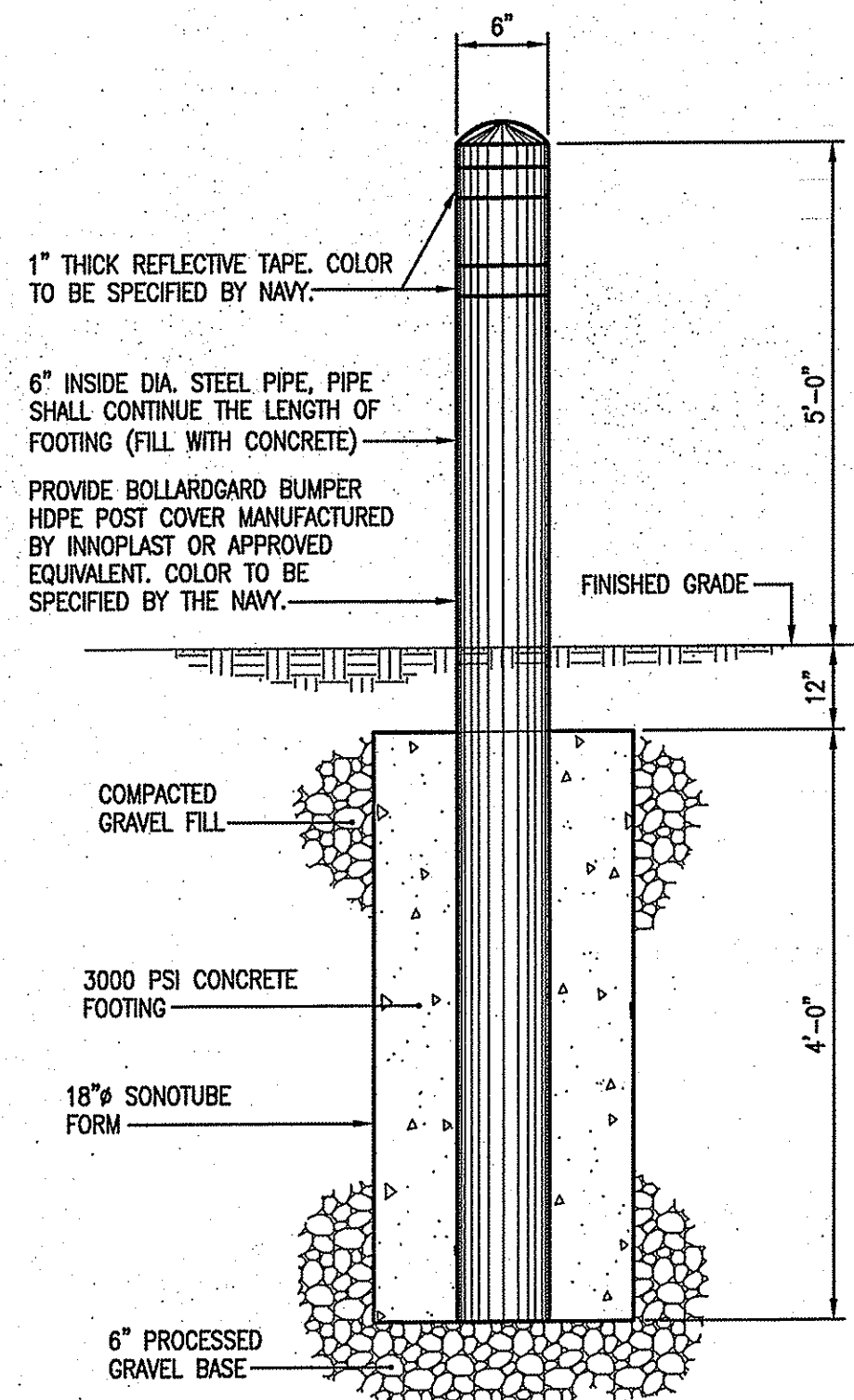
NOT TO SCALE C103 C1



NOTE:
1. REFER TO RISTO DETAIL 24.2.0 FOR SIGN POST DETAIL.

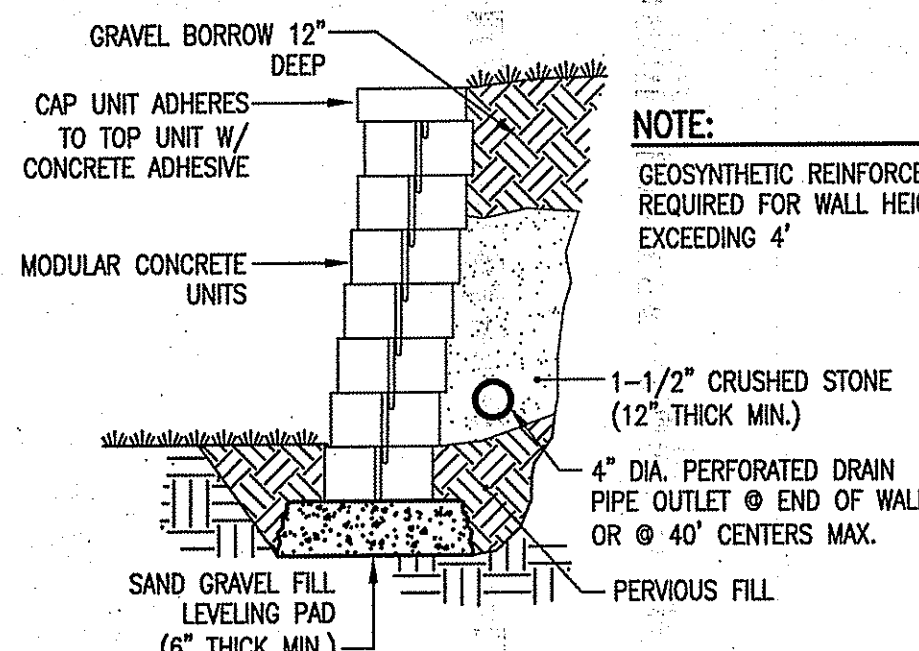
PARKING SIGN DETAILS

NOT TO SCALE C103 A1



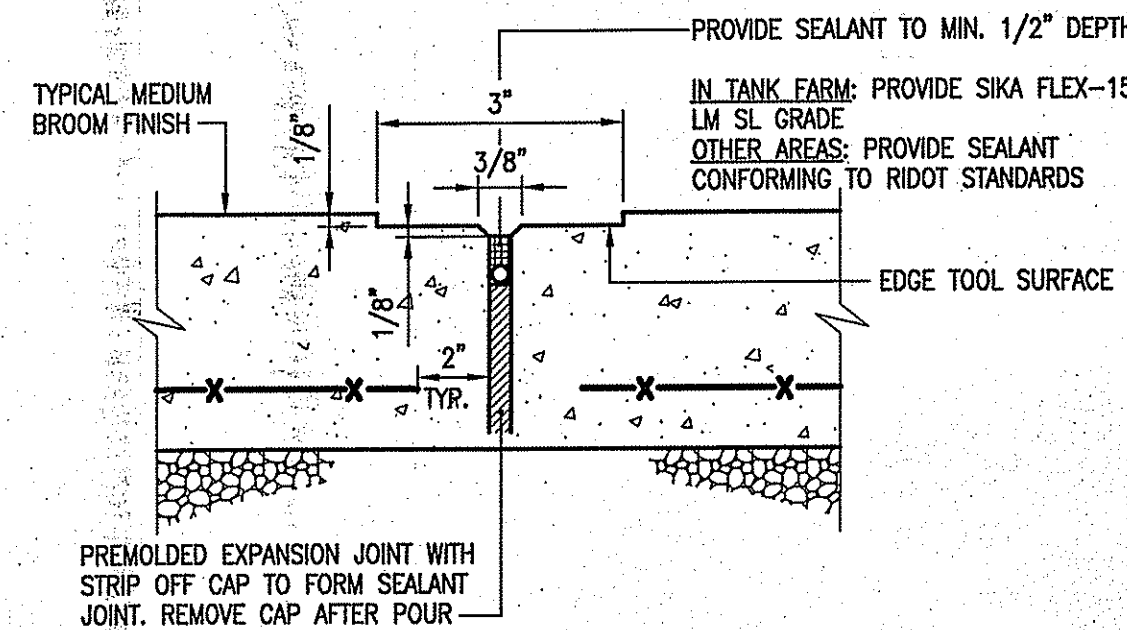
BOLLARD DETAIL

NOT TO SCALE C103 A2



SEGMENTAL RETAINING WALL DETAIL

NOT TO SCALE C103 A3



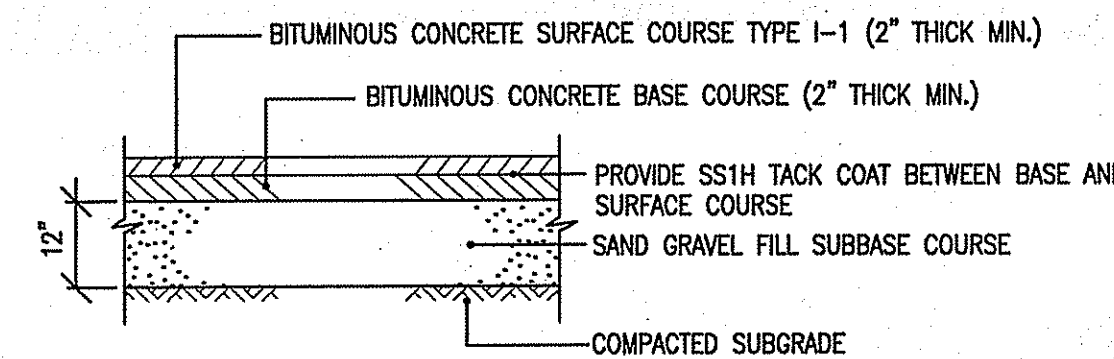
EXPANSION JOINT AT 20' O.C. (TYP)

NOTES:

1. EXPANSION JOINTS (E.J.) 20' O.C. UNLESS OTHERWISE NOTED.
2. CONTROL JOINTS (C.J.) 5' O.C. UNLESS OTHERWISE NOTED.
3. WHERE EXISTING AND NEW CONCRETE SIDEWALKS MEET, SAWCUT EXISTING WALK AND INSTALL EXPANSION JOINT AND DOWELS AS SHOWN. DRILL EXISTING CONCRETE WALK EDGE TO RECEIVE STEEL DOWELS AT EXPANSION JOINT.

EXPANSION AND CONTROL JOINTS

NOT TO SCALE C103 B4

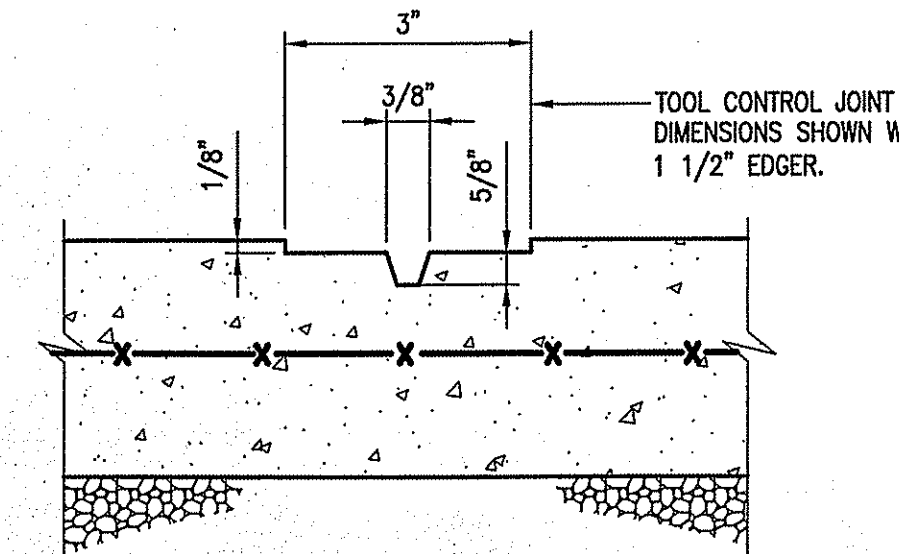


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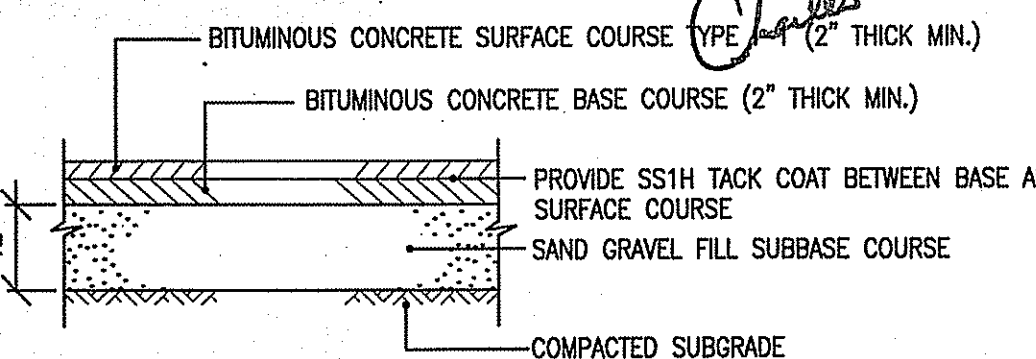
1. THE THICKNESS OF THE PROPOSED PAVEMENT COURSE SHALL MATCH THE EXISTING PAVEMENT. PROVIDE THE MINIMUM THICKNESS SHOWN.
2. SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT

TYPICAL HEAVY DUTY PAVEMENT DETAIL

NOT TO SCALE C103 A4



CONTROL JOINT AT 5' O.C. (TYP)

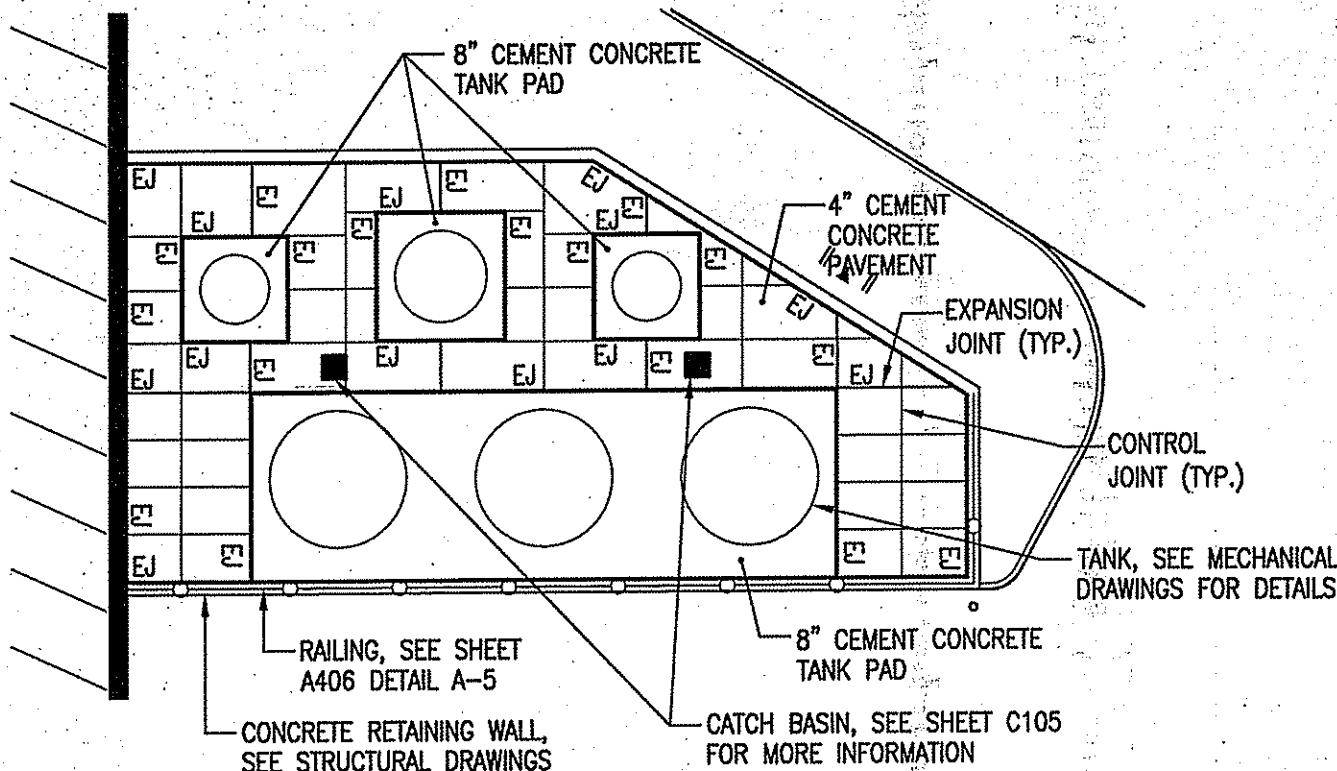


NOTES:

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TYPICAL PAVEMENT DETAIL

NOT TO SCALE C103 A5

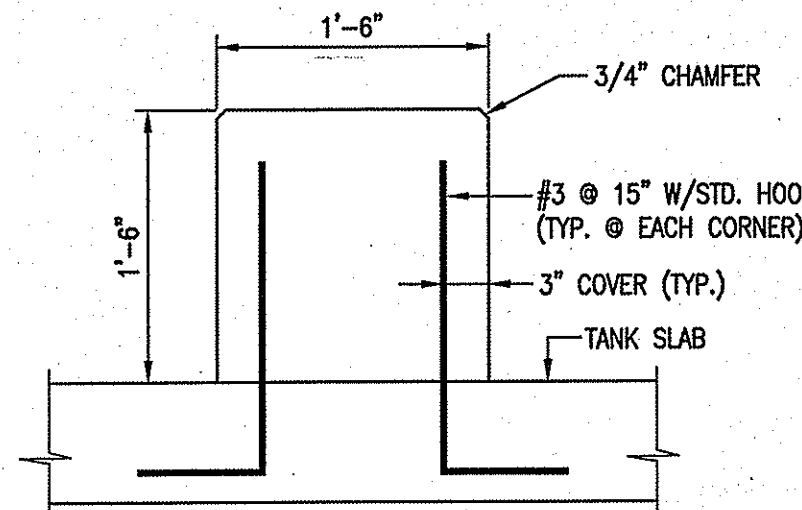


TANK FARM EXPANSION AND CONTROL JOINT LAYOUT DETAIL

NOT TO SCALE C103 C3

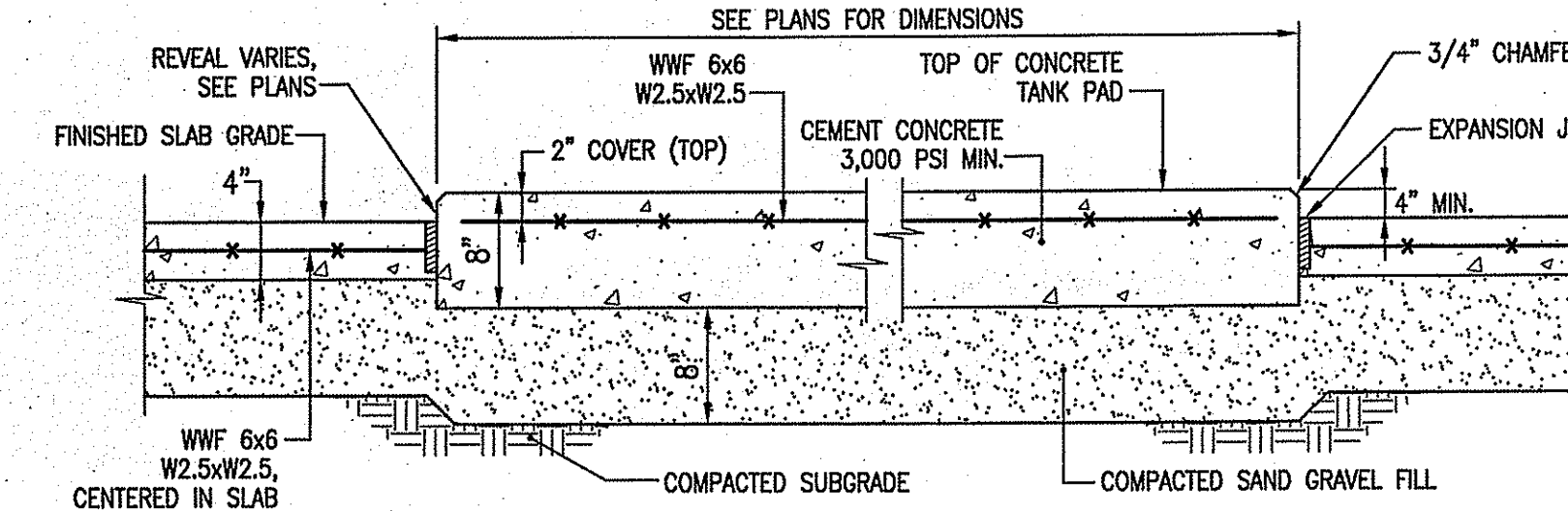
NOTES:

1. SEE MECHANICAL DRAWINGS FOR LOCATION OF DIAPHRAGM PUMP PAD.
2. LOCATE TO AVOID IMPEDING DRAINAGE OF SLAB.



DIAPHRAM PUMP PAD

NOT TO SCALE C103 C4



NOTES:

1. CONCRETE WORK SHALL CONFORM TO THE LATEST ADDITIONS OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE RHODE ISLAND STATE BUILDING CODE.
2. CONCRETE SHALL BE NORMAL WEIGHT, TYPE II CEMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
* 3,000 PSI 1 1/2" AGGREGATE SLABS
3. ALL CONCRETE SHALL BE AIR-ENTRAINED WITH AN AIR CONTENT OF 6± 1%.
4. CALCIUM CHLORIDE SHALL NOT BE USED.
5. ALL SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ITS SPECIFIED 28 DAY MINIMUM COMPRESSIVE STRENGTH.
6. ALL SLABS SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
7. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.
8. WHEN CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE INTERFACE SHALL BE CLEAN, FREE OF LAITANCE, AND INTENTIONALLY ROUGHENED TO FULL AMPLITUDE OF APPROXIMATELY 1/4 INCH. APPLY EPOXY BONDING AGENT SUCH AS SIKADUR 32, HI-MOD LPL OR EQUAL.
9. AT ALL CONSTRUCTION JOINTS NOT DESIGNATED TO BE CONTROL JOINTS, NEW CONCRETE SHALL BE BONDED TO HARDENED CONCRETE WITH SIKAFLEX-15 LM SL GRADE MANUFACTURED BY SIKA CORP. OR ENGINEER APPROVED EQUAL. APPLY PER MANUFACTURER'S RECOMMENDATIONS.
10. ALL CONCRETE SHALL BE PLACED IN THE DRY.

CEMENT CONCRETE TANK PAD

NOT TO SCALE C103 C5

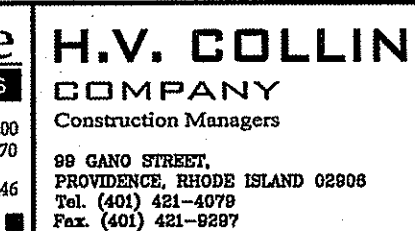
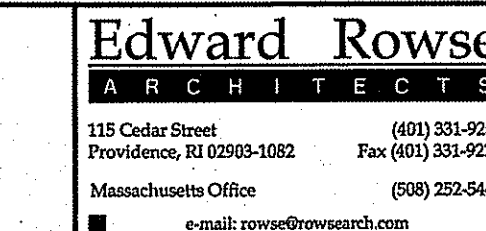
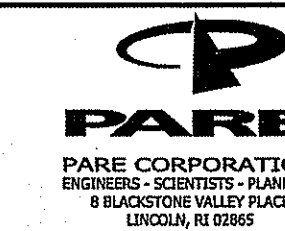
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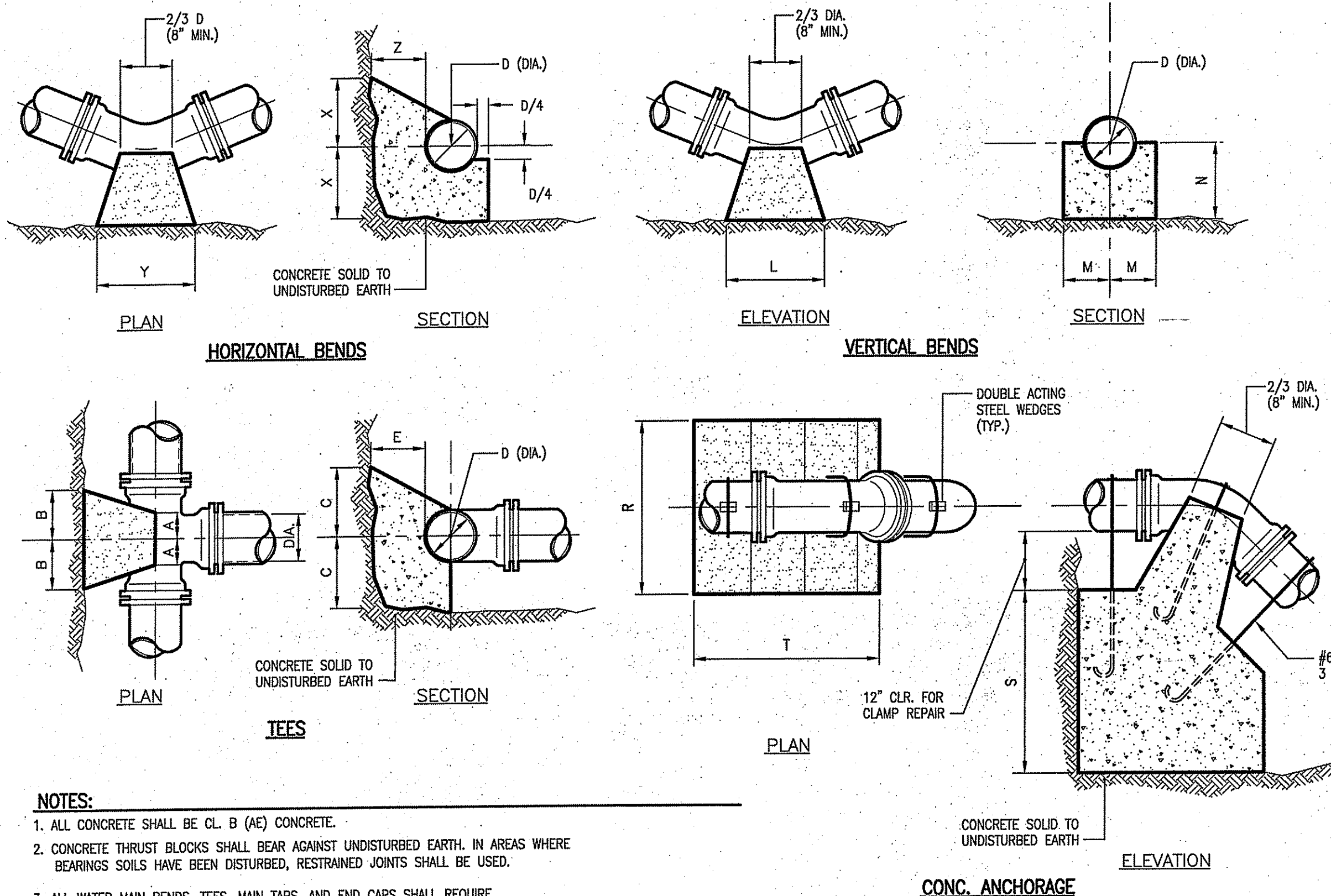
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APPROVED	DATE	APPR
FOR COMMANDER NAVAFC ACTIVITY		
SATISFACTORY TO DATE 05/11/2010	DWG	CHK
PA/DM		
BRANCH MANAGER		
CHIEF ENG/ARCH	DWG	
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND		
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC		
NAVAL STATION - NORFOLK, VIRGINIA		
NAVAL UNDERSEA WARFARE CENTER		
NEWPORT, RHODE ISLAND		
P-112V ADDITION TO BUILDING 1176		
CIVIL DETAILS 1		
SCALE: NOT TO SCALE		
PROJECT NO. 543292		
CONSTR. CONTR. NO. N40085 - 09 - C - 7010		
NAVAFC DRAWING NO. 12557452		
SHEET 7 OF 10		
C106		
DATEFORM REVISION: 10 MARCH 2009		

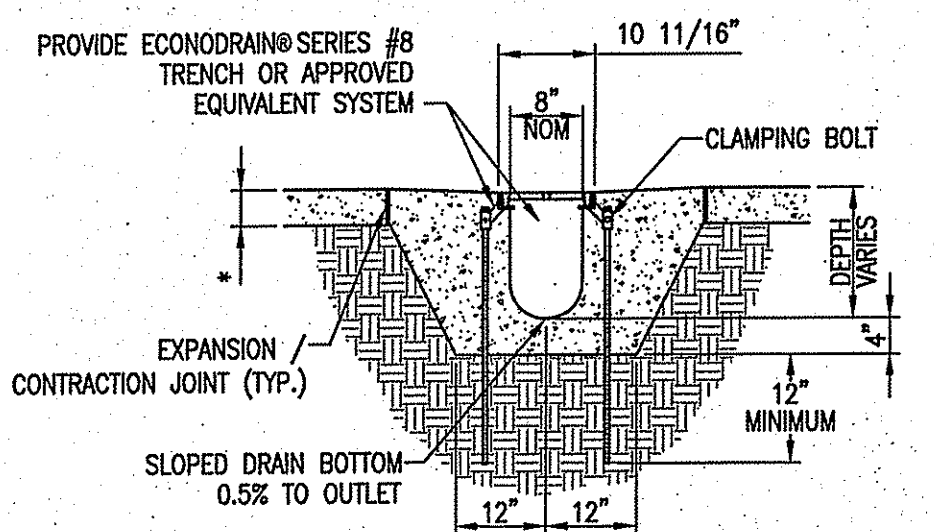
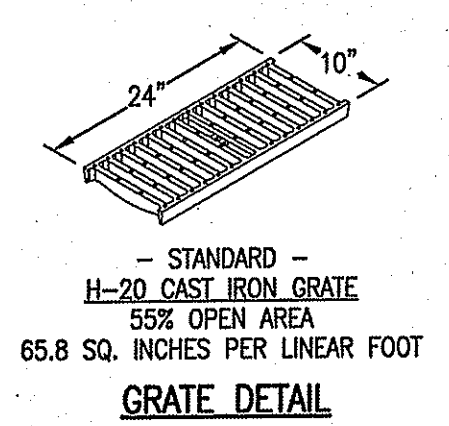
FILE NAME: G:\060600 NAVAFC - Newport Building 1176 - R\0606\C106-109 Detailing LAYOUT NAME: 1 PLOTTED: Tuesday, June 01, 2010 - 10:12am USER: jmbdo



- NOTES:**
1. ALL CONCRETE SHALL BE CL. B (A5) CONCRETE.
 2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH. IN AREAS WHERE BEARING SOILS HAVE BEEN DISTURBED, RESTRAINED JOINTS SHALL BE USED.
 3. ALL WATER MAIN BENDS, TEES, MAIN TAPS, AND END CAPS SHALL REQUIRE A CONCRETE THRUST BLOCK.

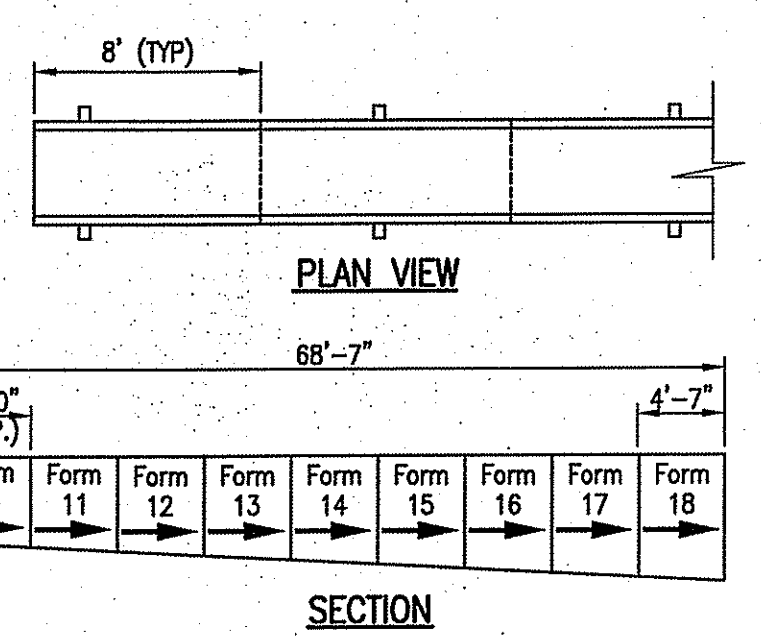
TEES		HORIZONTAL BENDS					VERTICAL BENDS					ANCHORAGES							
PIPE SIZE-D (DIA.)		PIPE SIZE-D (DIA.)					PIPE SIZE-D (DIA.)					PIPE SIZE-D (DIA.)							
	6"	8"	10"	12"	16"	20"	BEND	6"	8"	12"	16"	20"	BEND	6"	8"	12"	16"	20"	
A	8"	10"	12"	16"	1'-3"	1'-6"	1/8	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"	L	1'-3"	1'-6"	2'-6"	3'-6"	4'-8"
B	8"	10"	12"	16"	1'-4"	1'-6"	1/8	Y	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"	M	7"	8"	11"	1'-4"	1'-6"
C	10"	12"	16"	1'-3"	1'-6"	1'-8"	1/16	Z	8"	10"	1'-2"	1'-4"	1'-6"	N	7"	8"	11"	1'-4"	1'-6"
E	8"	10"	12"	1'-2"	1'-6"	1'-10"	1/16	X	1'-0"	1'-0"	1'-0"	1'-3"	1'-6"	L	6"	8"	1'-0"	1'-4"	1'-9"
							1/32	Y	1'-0"	1'-0"	1'-0"	1'-2"	1'-4"	M	7"	7"	10"	1'-0"	1'-2"
							1/32	Z	8"	10"	1'-2"	1'-4"	1'-6"	N	7"	7"	10"	1'-0"	1'-2"

CONCRETE THRUST BLOCKS
NOT TO SCALE C105 B1



SHALLOW EPS FORMS

EPS FORM	MIN DEPTH	MAX DEPTH
10	8"	8 1/2"
11	8 1/2"	9"
12	9"	9 1/2"
13	9 1/2"	10"
14	10"	10 1/2"
15	10 1/2"	11"
16	11"	11 1/2"
17	11 1/2"	12"
18	12"	12 1/2"

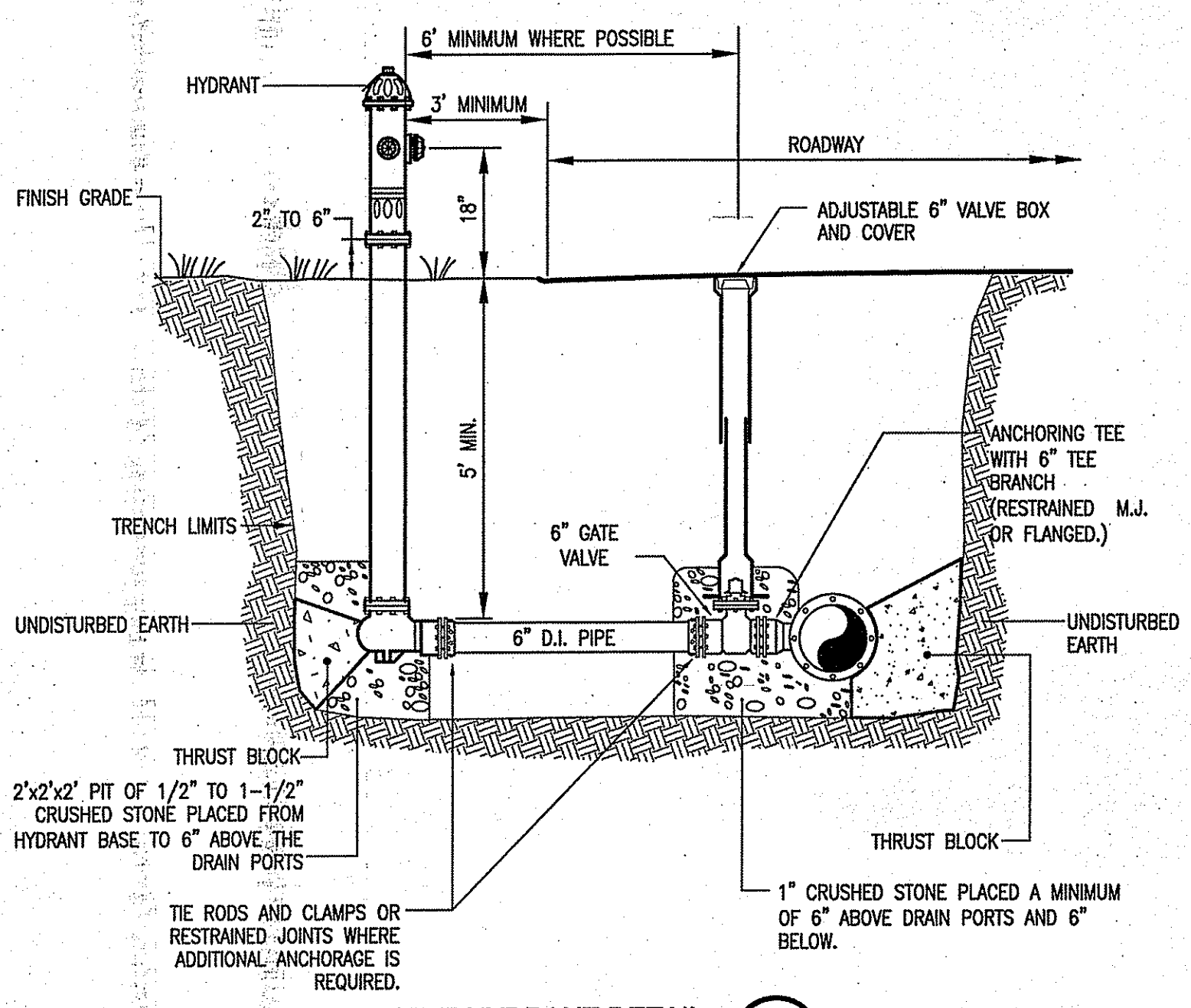


TRENCH DRAIN DETAIL
NOT TO SCALE C105 A1

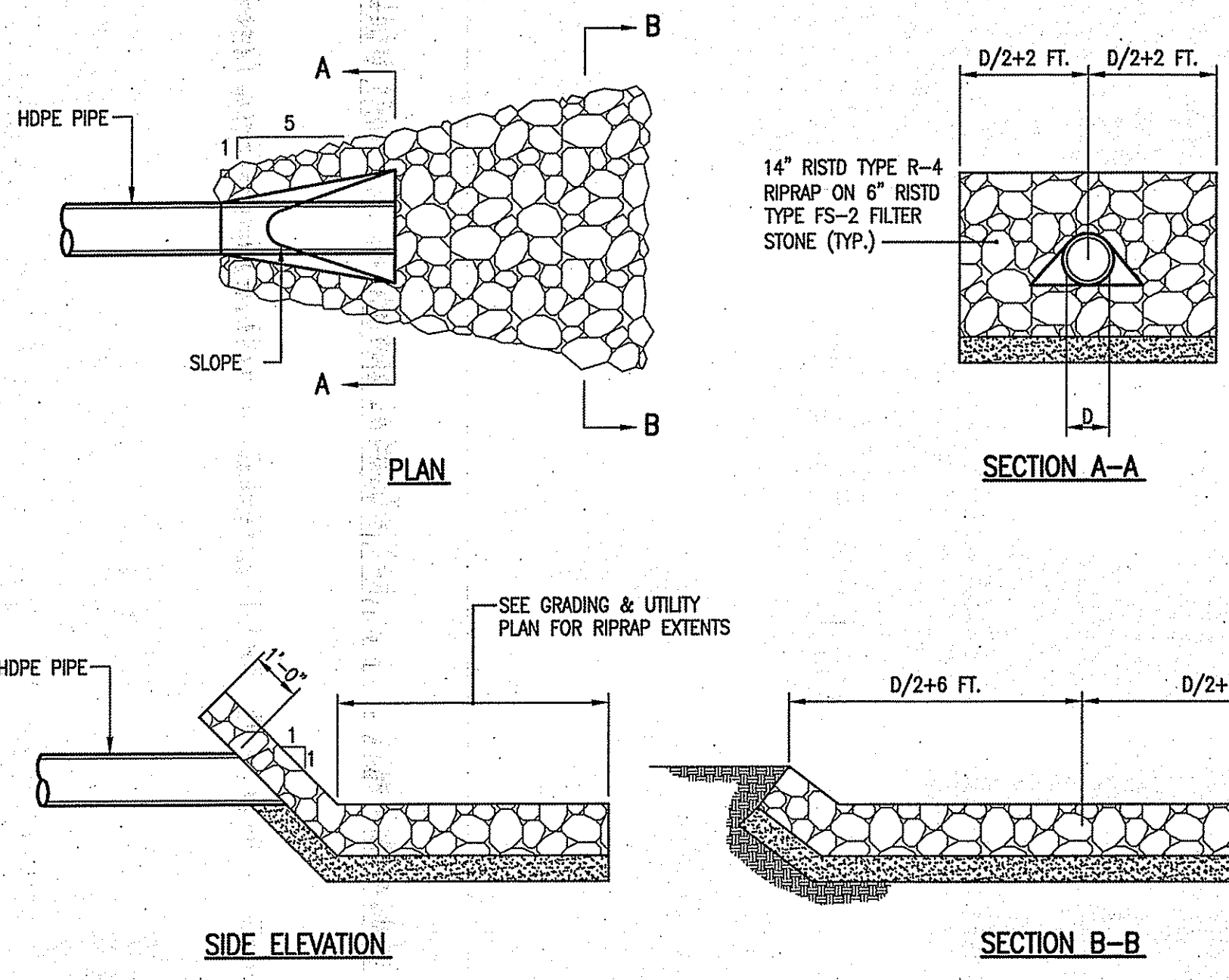
- CONSTRUCTION NOTES:**
1. UNO, ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, FACE OF MASONRY, FACE OF CONG, FACE OF STEEL WALL PANEL OR TO CENTERLINE OF COLUMN AS OCCURS.
 2. REFER TO DWG A-000 FOR WALL TYPES, SYMBOLS, LEGEND AND ABBREVIATIONS.
 3. MAINTAIN INTEGRITY OF FIRE RATED WALL ASSEMBLIES, NON-RATED WALL ASSEMBLIES SHALL ABUT. - ALL FIRE RATED & SMOKE PARTITION WALL TYPE ASSEMBLIES SHALL EXTEND TIGHT TO THE UNDERSIDE OF ROOF DECK ABOVE AS OCCURS.
 4. UNLESS OTHERWISE NOTED, ALL WALL TYPE FRAMING & INSULATION ASSEMBLIES (AS OCCURS) SHALL EXTEND TIGHT TO UNDERSIDE OF ROOF DECK ABOVE. - BRACE ALL WALL TYPE FRAMING AS REQUIRED.
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 6. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL WALL TYPES LOCATED AT BATHROOMS, CONNECTOR ADDITION, OR ADJACENT TO PLUMBING FIXTURES AS OCCURS.
 7. PROVIDE BULLNOSE EDGE AT ALL INTERIOR CMU WALLS AT EXTERNAL CORNER LOCATIONS.

ARCHITECTURAL GENERAL NOTES:

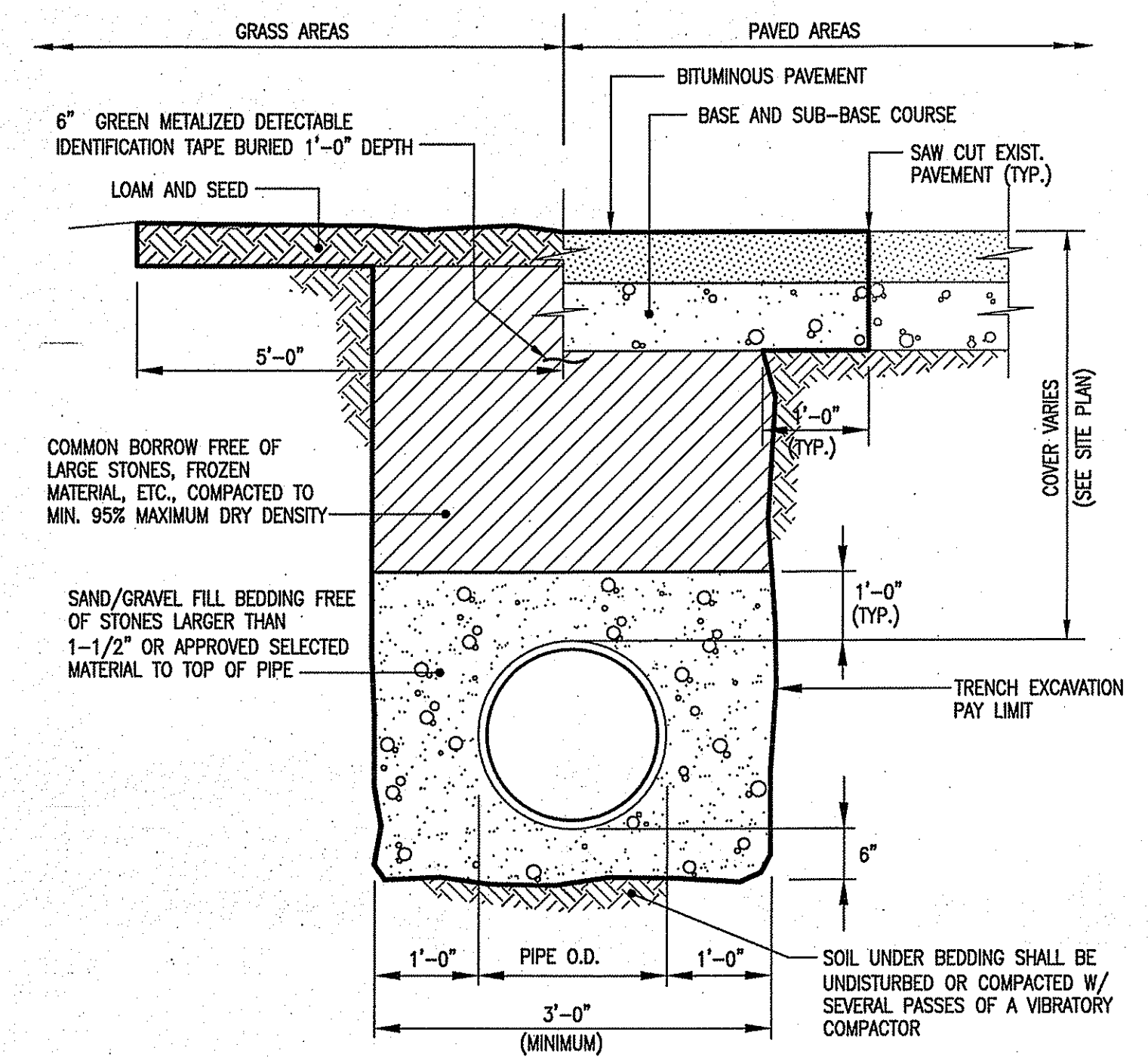
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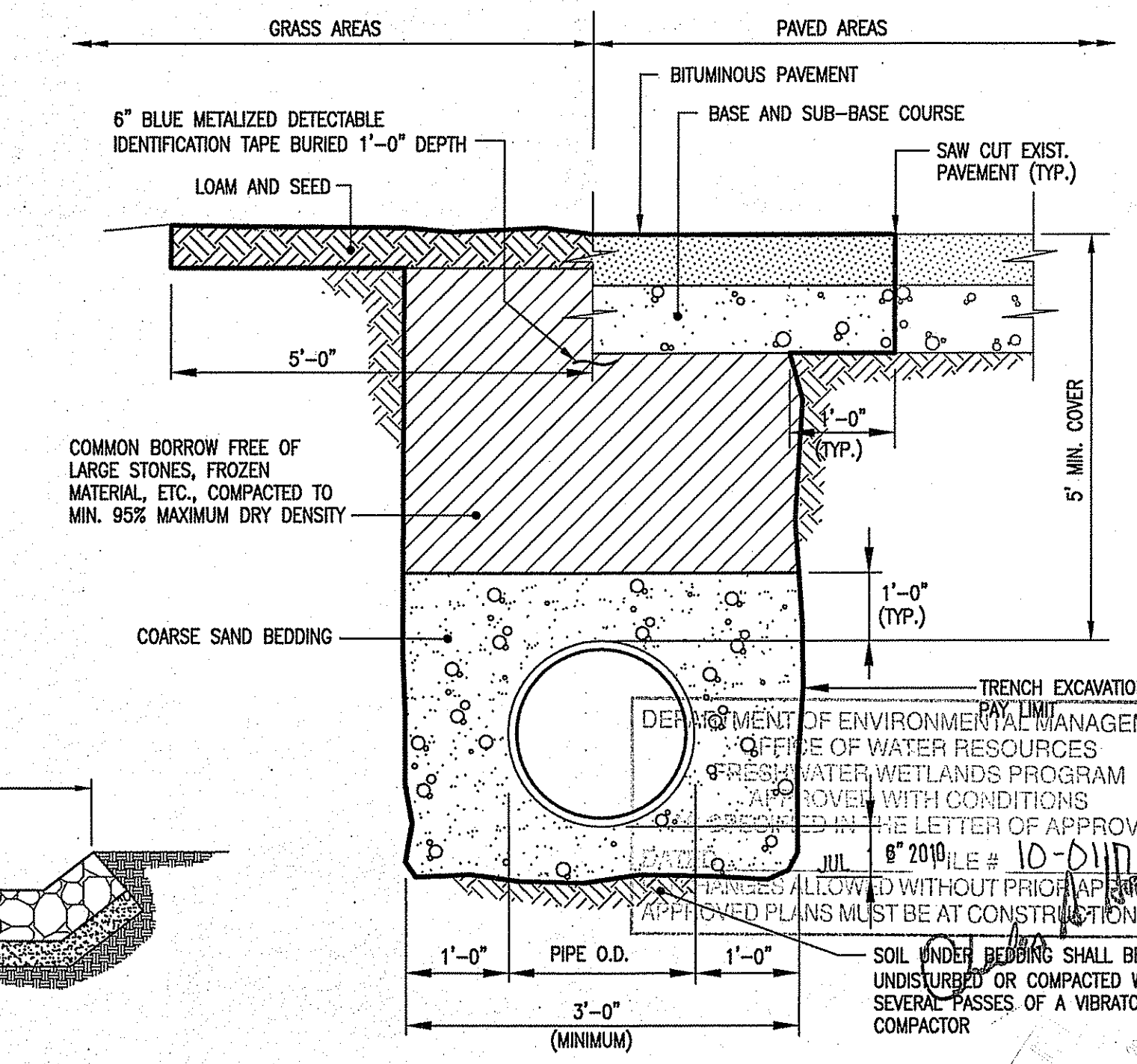
FIRE HYDRANT DETAIL
NOT TO SCALE C105 C4



RIPRAP AT FLARED END SECTION
NOT TO SCALE C105 A4



TYPICAL DRAIN/SEWER TRENCH DETAIL
NOT TO SCALE C105 C5

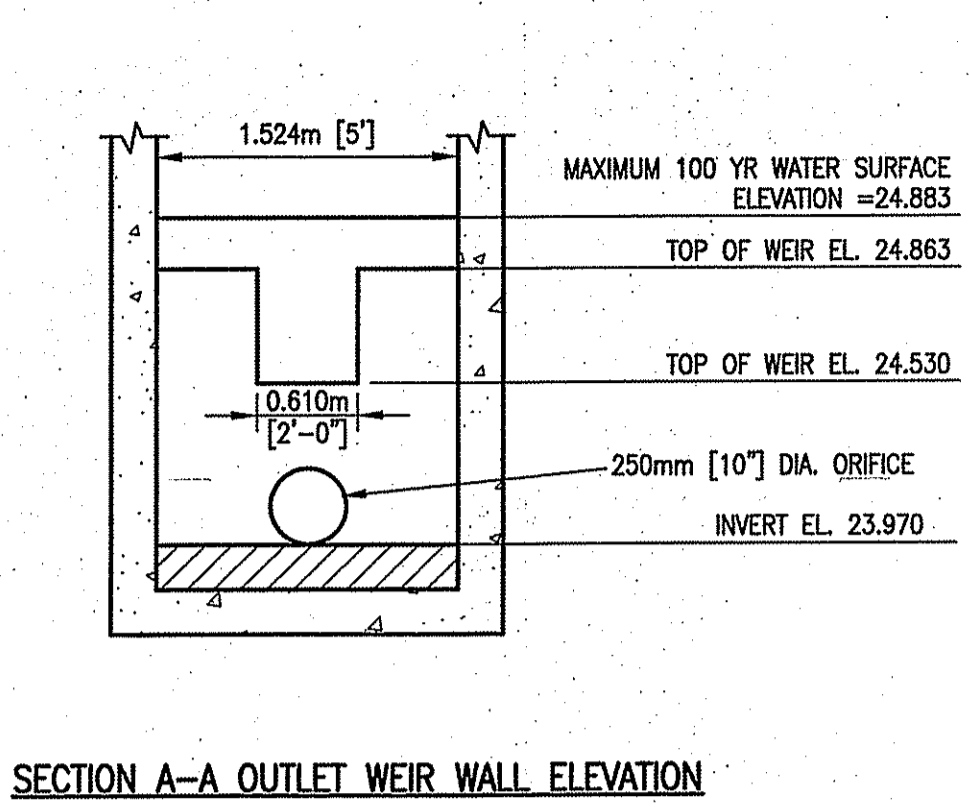
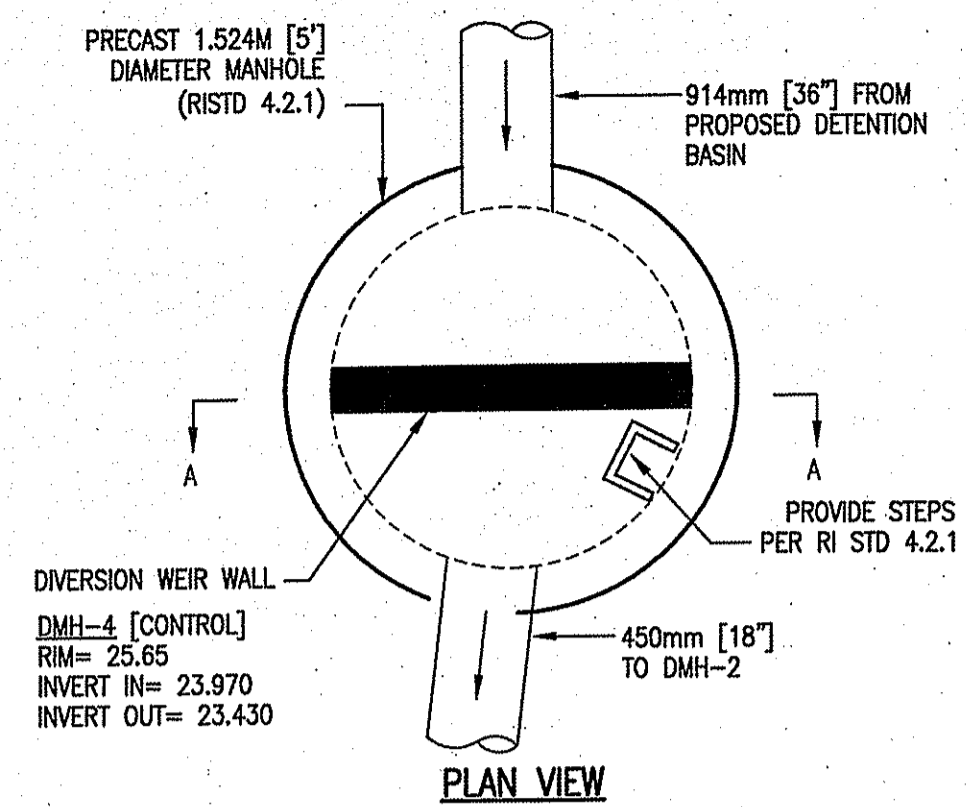


TYPICAL WATER MAIN TRENCH DETAIL
NOT TO SCALE C105 A5

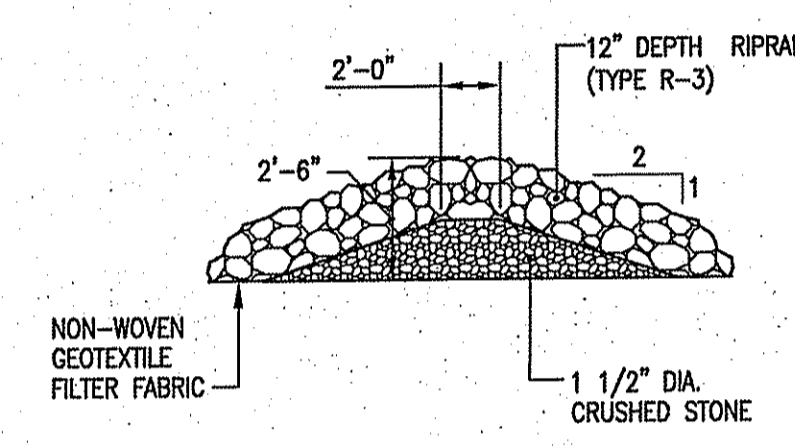
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DESCRIPTION	CHK
SCOTT D. LINDGREN No. 8036 REGISTERED PROFESSIONAL ENGINEER CIVIL	
DATE	APPR
DESCRIPTION	CHK
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC NAVY STATION - NORFOLK, VIRGINIA NEWPORT, RHODE ISLAND NAVAL UNDERSEA WARFARE CENTER	
P-112V ADDITION TO BUILDING 1176 CIVIL DETAILS 2	
SCALE: NOT TO SCALE	PROJECT NO.: 543292
CONSTR. CONTR. NO. N40085 - 09 - C - 7010	NAVFAC DRAWING NO. 12557453
SHEET 8 OF 10	C107

REVISED 100% PRE-FINAL SUBMISSION - 05/11/10

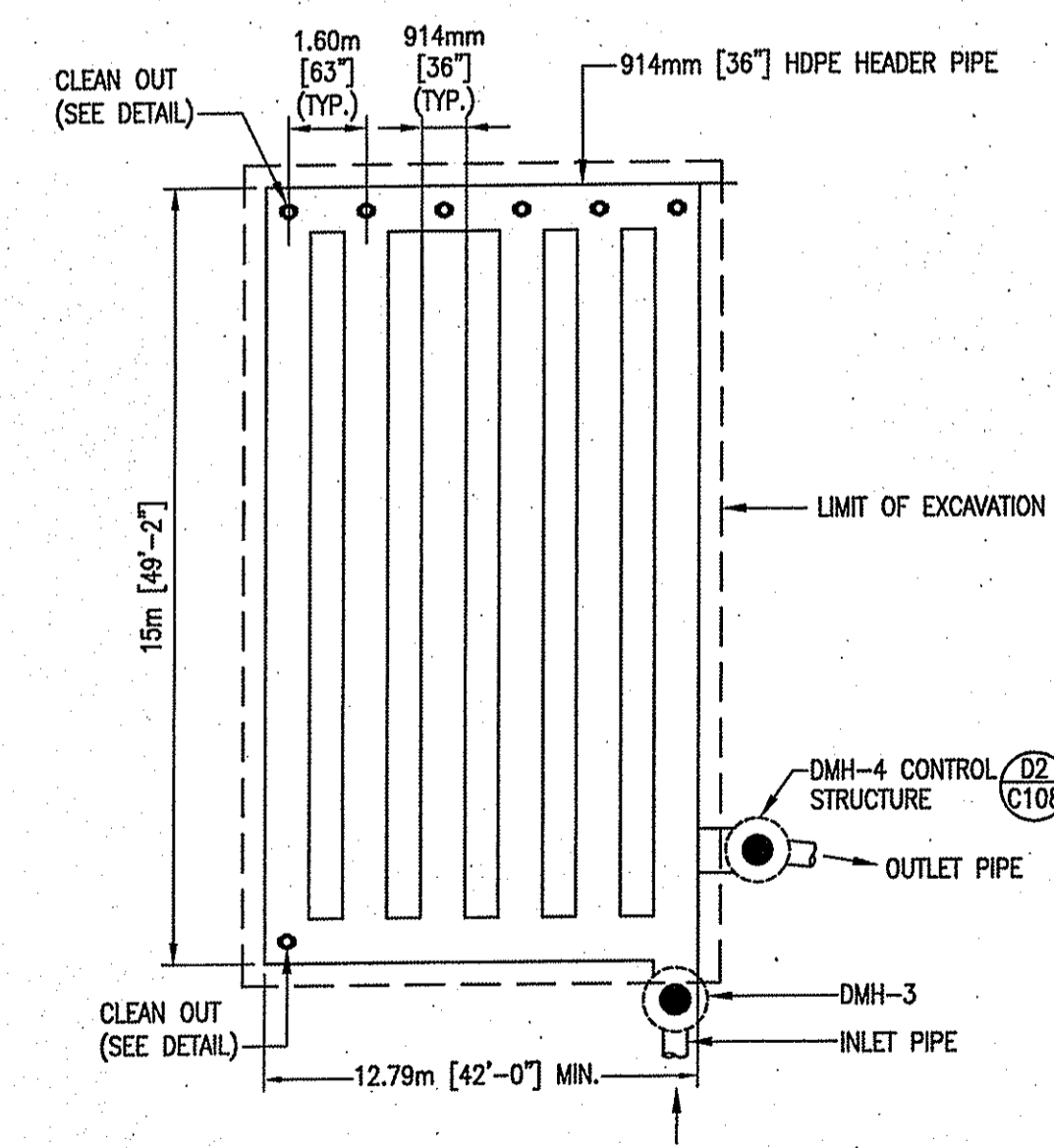
 PARE CORPORATION ENGINEERS - ARCHITECTS - PLANNERS 8 RAYBURN VALLEY PLACE LINCOLN, RI 02883 401-234-4500	 Edward Rowse ARCHITECTS 115 Cedar Street Providence, RI 02903-1082 Massachusetts Office (401) 331-9200 Fax (401) 331-9200 (609) 252-9466	 H.V. COLLINS COMPANY Construction Managers 89 GIANO STREET, PROVIDENCES, RHODE ISLAND 02908 Tel. (401) 421-4079 Fax. (401) 421-9207
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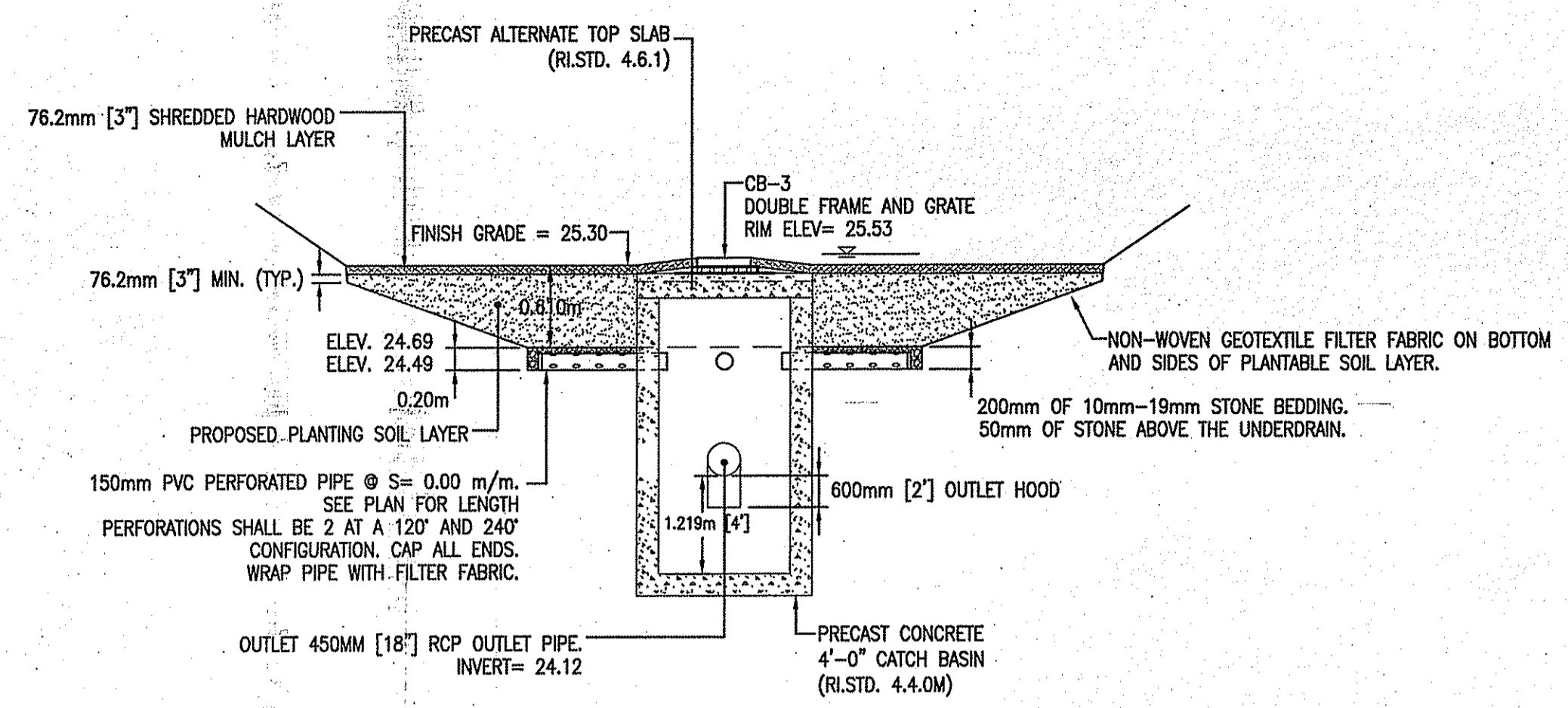
CONTROL STRUCTURE DETAIL
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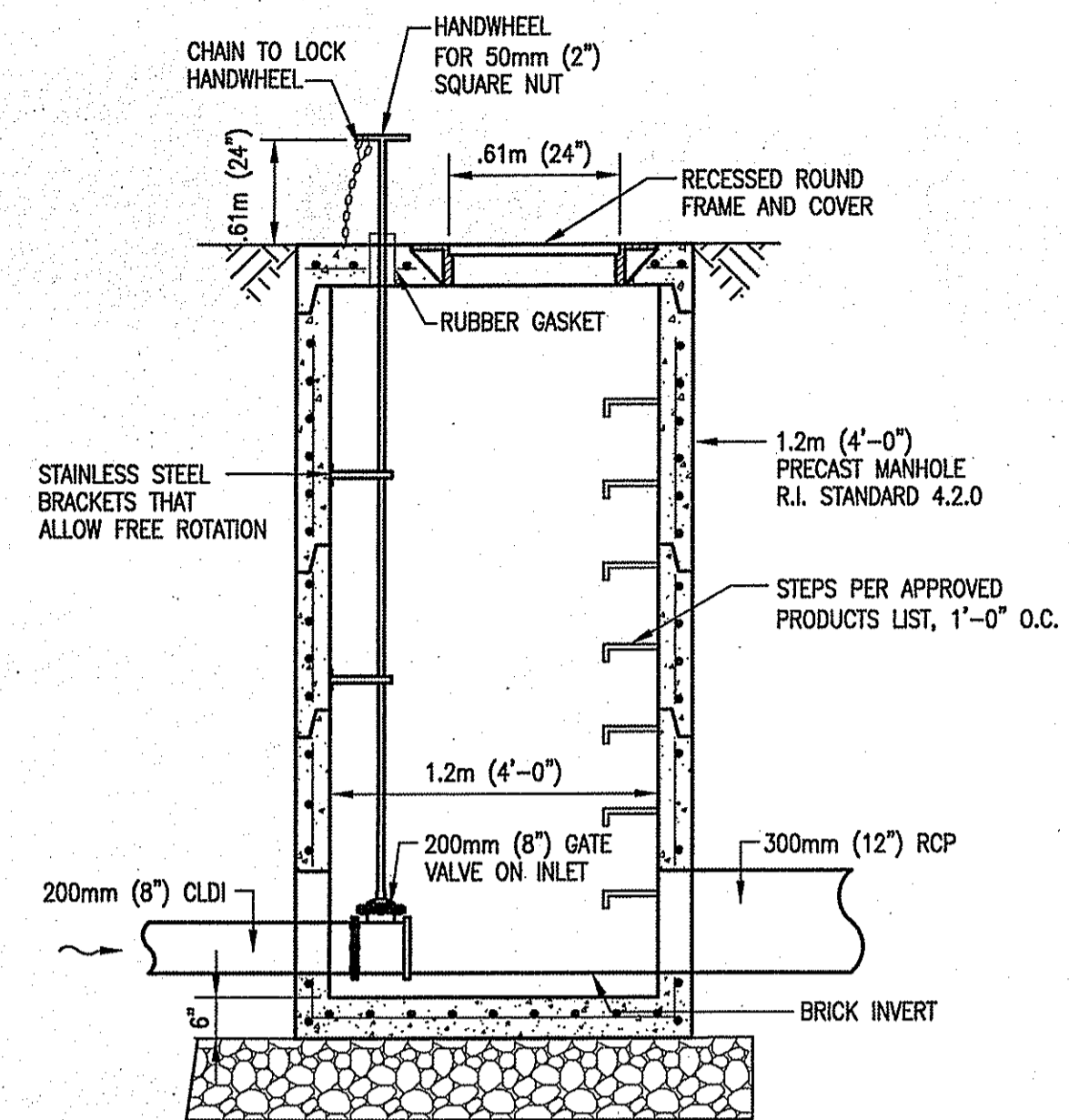
STONE BERM DETAIL
NOT TO SCALE C105 (C1)



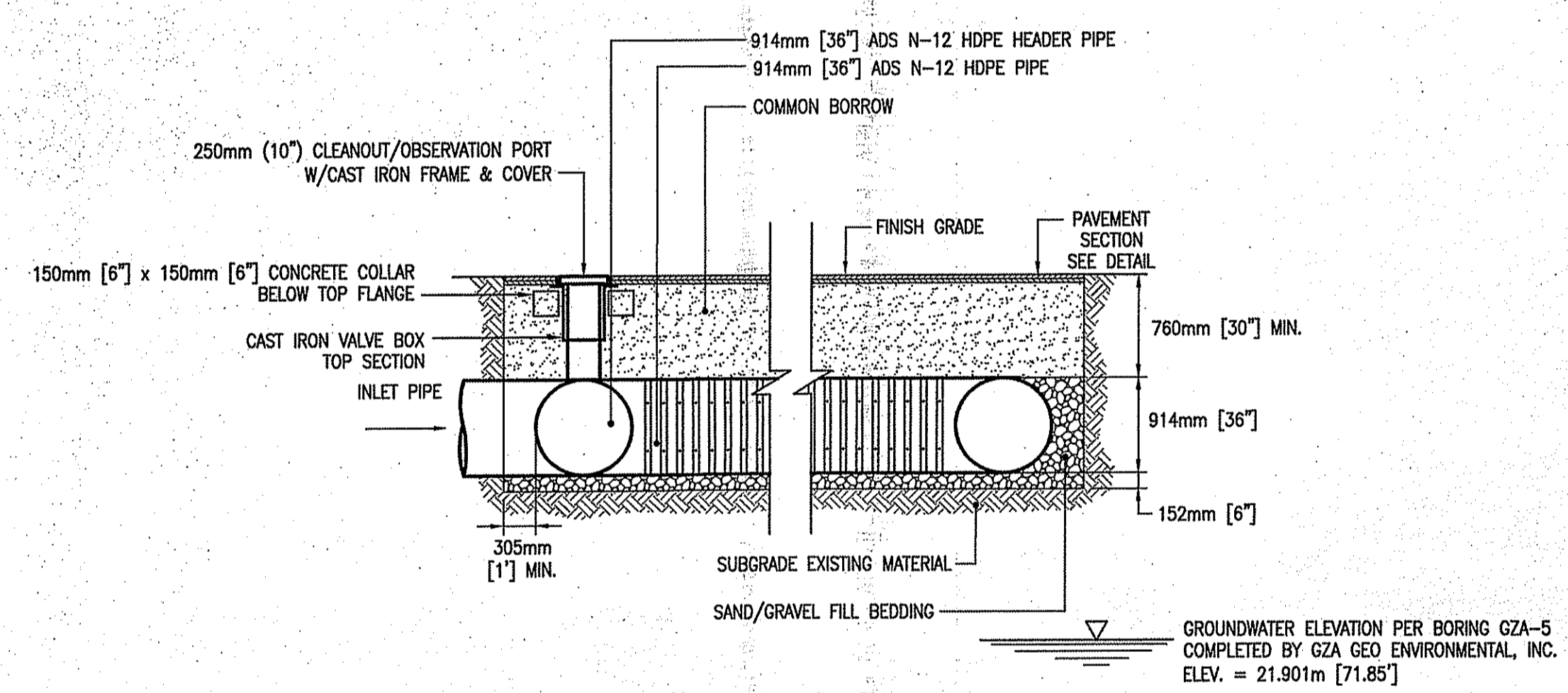
UNDERGROUND DETENTION SYSTEM PLAN
NOT TO SCALE C105 (A1)



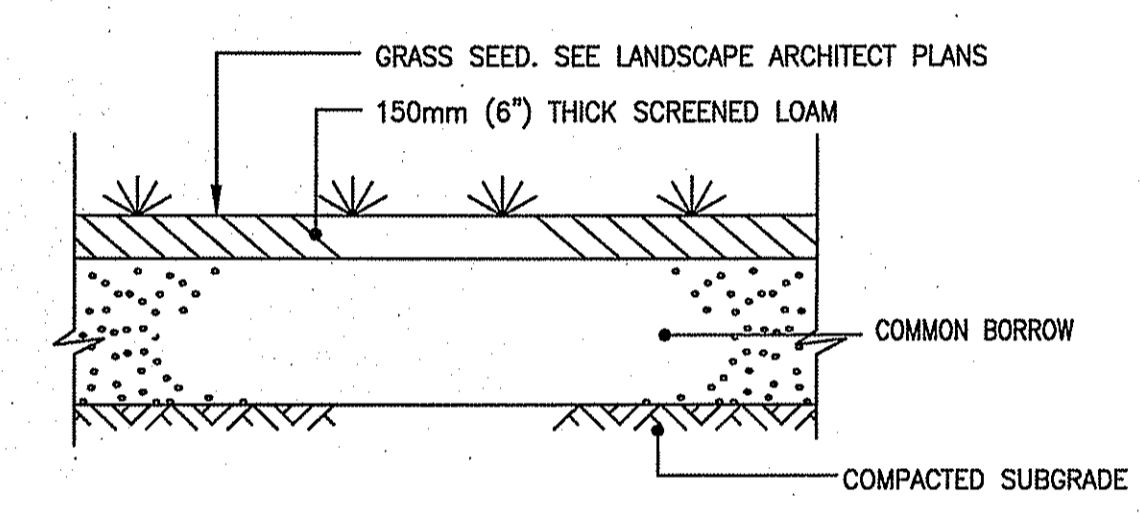
RAIN GARDEN DETAIL
NOT TO SCALE C105 (C4)



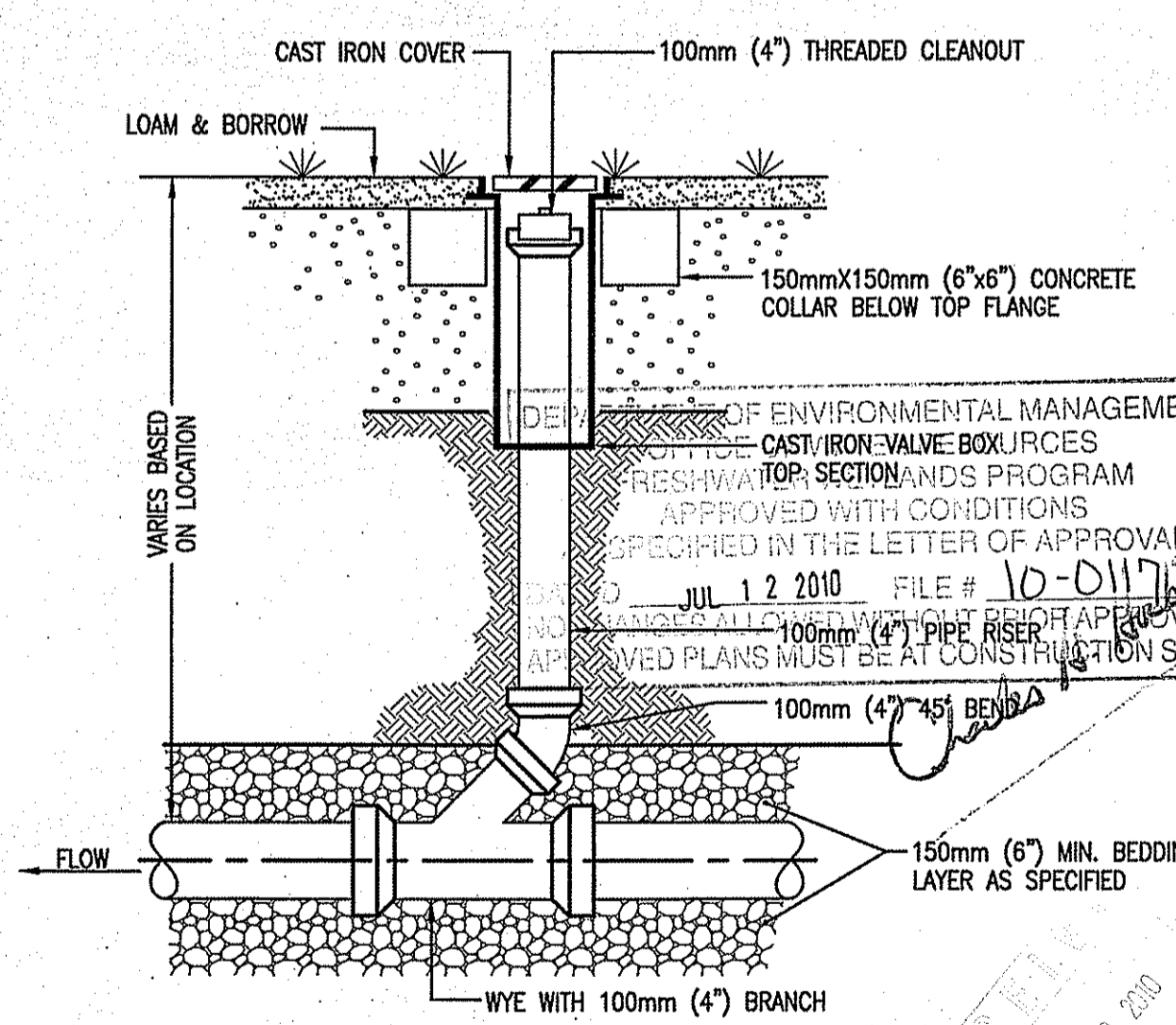
DMH-5 DETAIL WITH GATE VALVE
NOT TO SCALE C105 (C5)



UNDERGROUND DETENTION SYSTEM
NOT TO SCALE C105 (A3)



LOAM AND SEED DETAIL
NOT TO SCALE C105 (B5)



CLEANOUT DETAIL
NOT TO SCALE C105 (A5)

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- DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

REVISED 100% PRE-FINAL SUBMISSION - 05/11/10

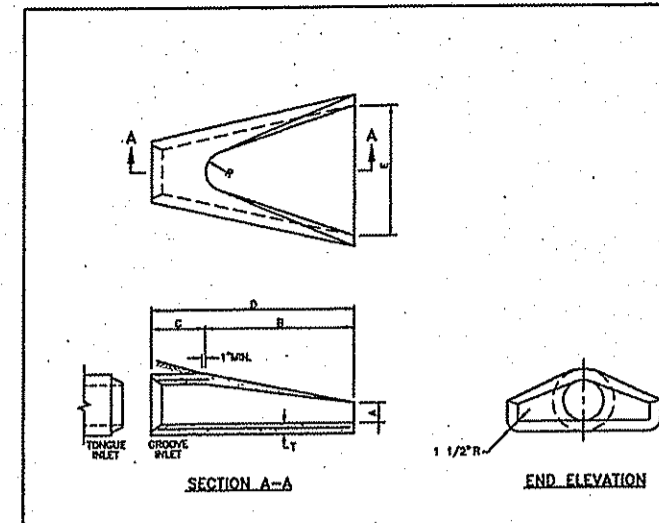
PARE CORPORATION
115 Cedar Street
Providence, RI 02903-1082
Tel: (401) 331-9200
Fax: (401) 331-9270
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02846
Tel: (401) 481-4079
Fax: (401) 481-4079
e-mail: rowse@rowsearch.com

Edward Rowse ARCHITECTS
115 Cedar Street
Providence, RI 02903-1082
Tel: (401) 331-9200
Fax: (401) 331-9270
Massachusetts Office
(800) 232-6446
e-mail: rowse@rowsearch.com

H.V. COLLINS COMPANY
Construction Managers
99 GARD STREET
PROVIDENCE, RHODE ISLAND 02908
Tel: (401) 481-4079
Fax: (401) 481-4079

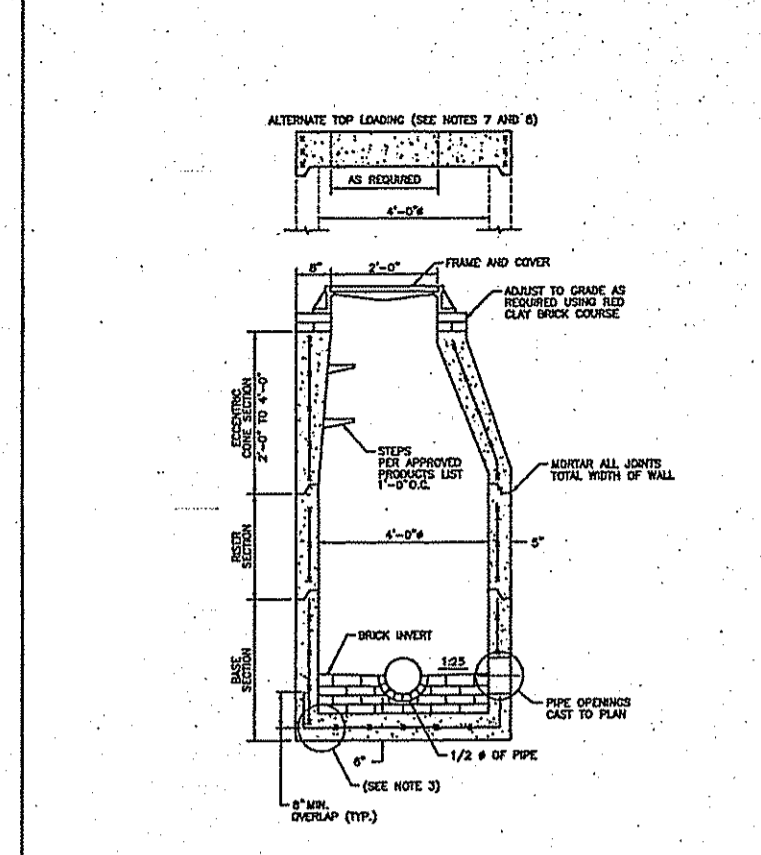
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FOR COMMANDER NAVFAC	DESCRIPTION
ACTIVITY	DATE
SUBFACTORY TO DATE 05/11/2010	DATE
DIES	DRW
PA/DW	CHK
BRANCH MANAGER	DWG
CHIEF ENG/ARCH	FIRE PROTECTION
NAVY FACILITIES ENGINEERING COMMAND	NAVY FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC	NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
NORTHHEAST FT	NORTHHEAST FT
NAVAL UNDERSEA WARFARE CENTER	NAVAL UNDERSEA WARFARE CENTER
NEWPORT, RHODE ISLAND	NEWPORT, RHODE ISLAND
P-112V ADDITION TO BUILDING 1176	P-112V ADDITION TO BUILDING 1176
CIVIL DETAILS 3	CIVIL DETAILS 3
SCALE: NOT TO SCALE	SCALE: NOT TO SCALE
PROJECT NO.: 543292	PROJECT NO.: 543292
CONSTR. CONTR. NO. N40085 - 09 - C - 7010	CONSTR. CONTR. NO. N40085 - 09 - C - 7010
NAVAC DRAWING NO. 12557454	NAVAC DRAWING NO. 12557454
SHEET 9 OF 10	SHEET 9 OF 10
C108	C108
DRAWING REVISION: 10 MARCH 2009	DRAWING REVISION: 10 MARCH 2009

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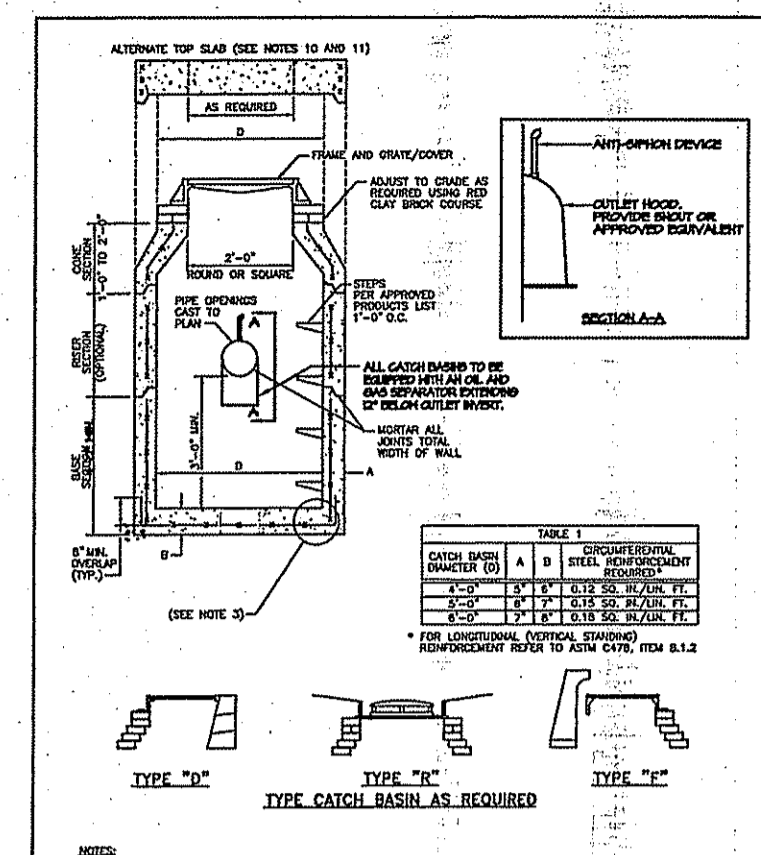


NO.	BY	DATE	DESCRIPTION
1	JL	6/15/98	ISSUED FOR BIDDING

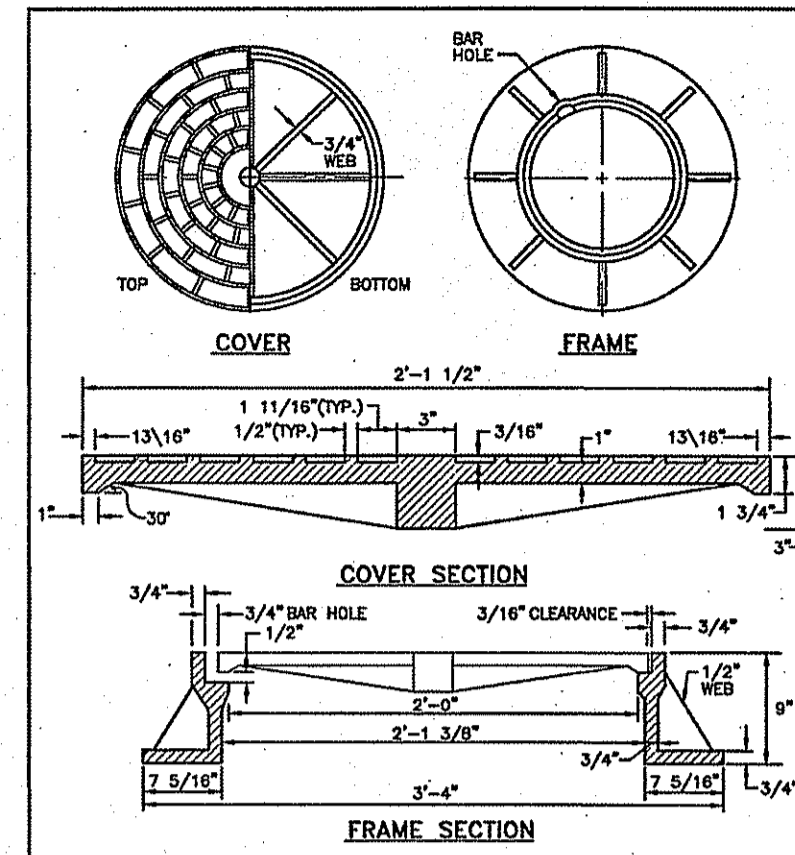
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 PRECAST CONCRETE FLANGED END SECTION
 R.I. STANDARD 2.3.0
 DATE: 6/15/98



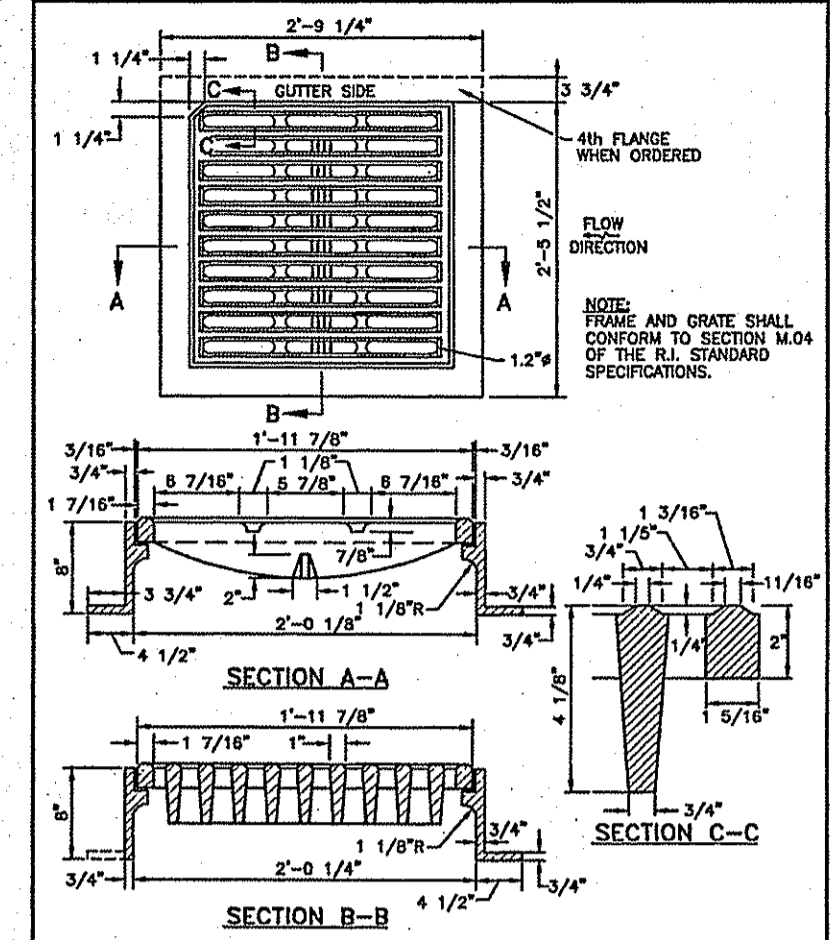
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 PRECAST 4'-0" ROUND MANHOLE
 R.I. STANDARD 4.2.0
 DATE: 6/15/98



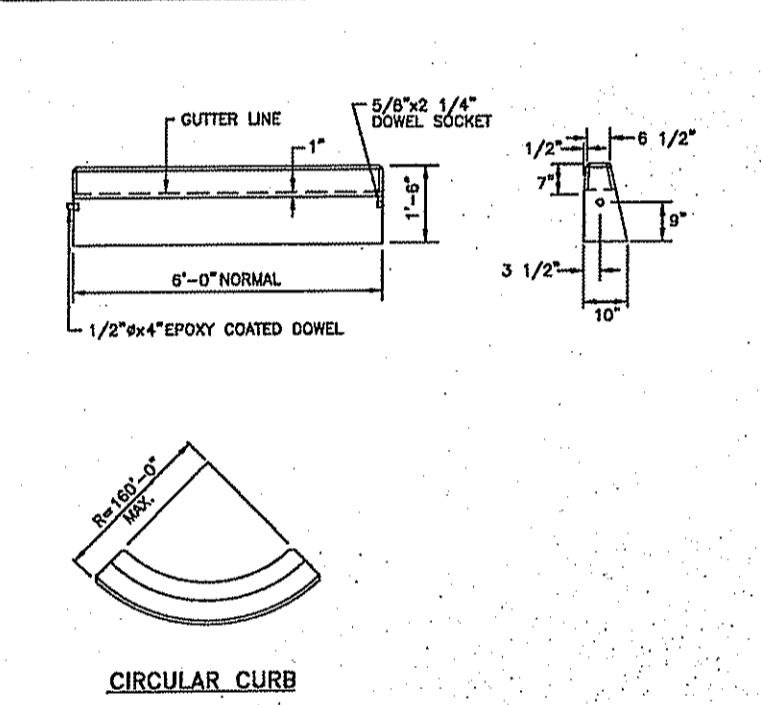
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
 R.I. STANDARD 4.4.0
 DATE: 6/15/98



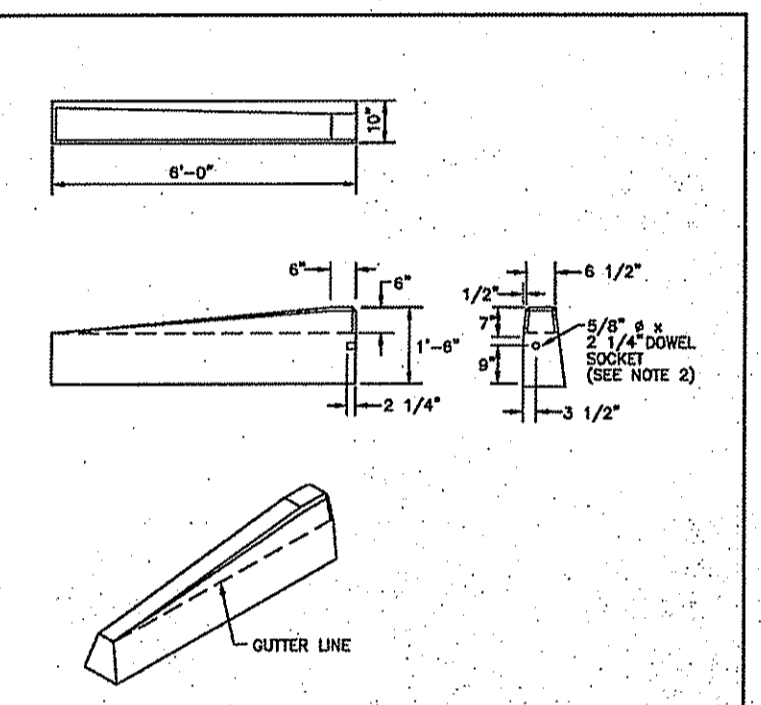
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 HEAVY-DUTY ROUND FRAME AND COVER
 R.I. STANDARD 6.2.1
 DATE: 6/15/98



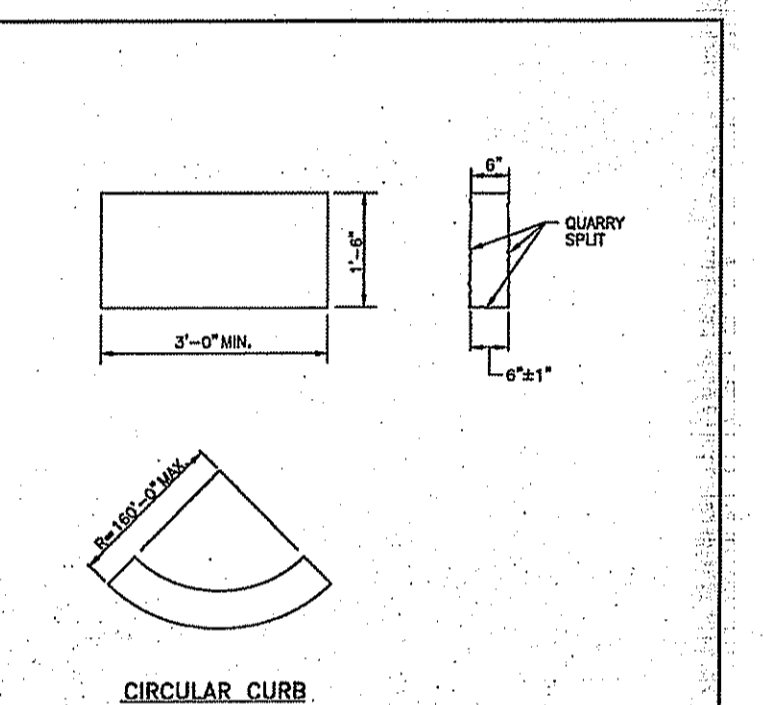
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 SQUARE FRAME AND GRATE (BICYCLE SAFE)
 R.I. STANDARD 6.3.2
 DATE: 6/15/98



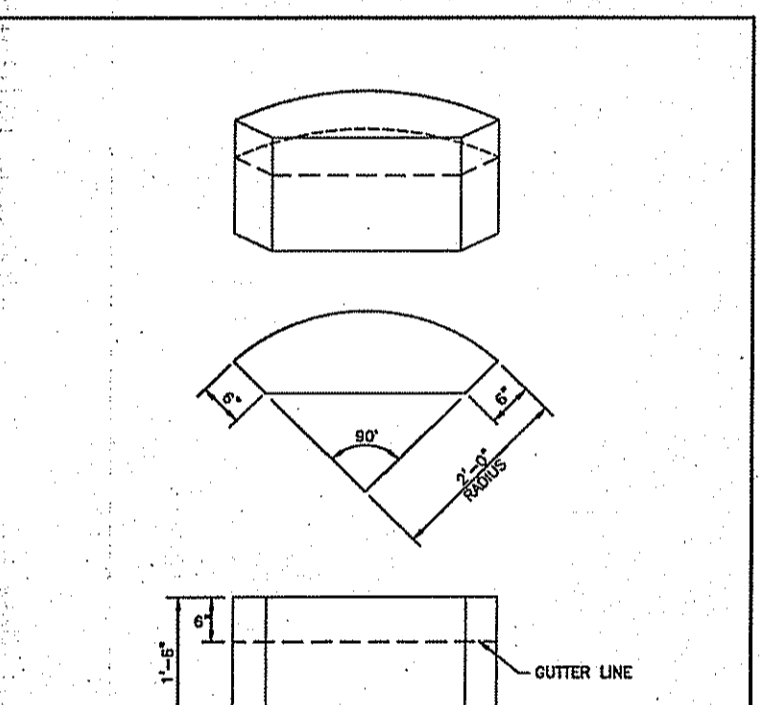
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 PRECAST CONCRETE CURB
 R.I. STANDARD 7.1.0
 DATE: 6/15/98



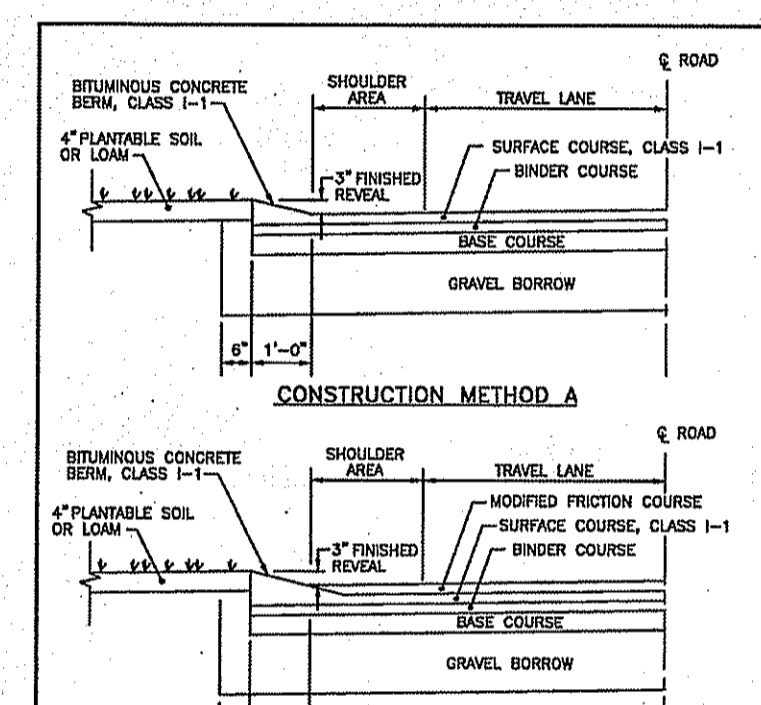
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 6'-0" PRECAST CONCRETE TRANSITION CURB
 R.I. STANDARD 7.1.2
 DATE: 6/15/98



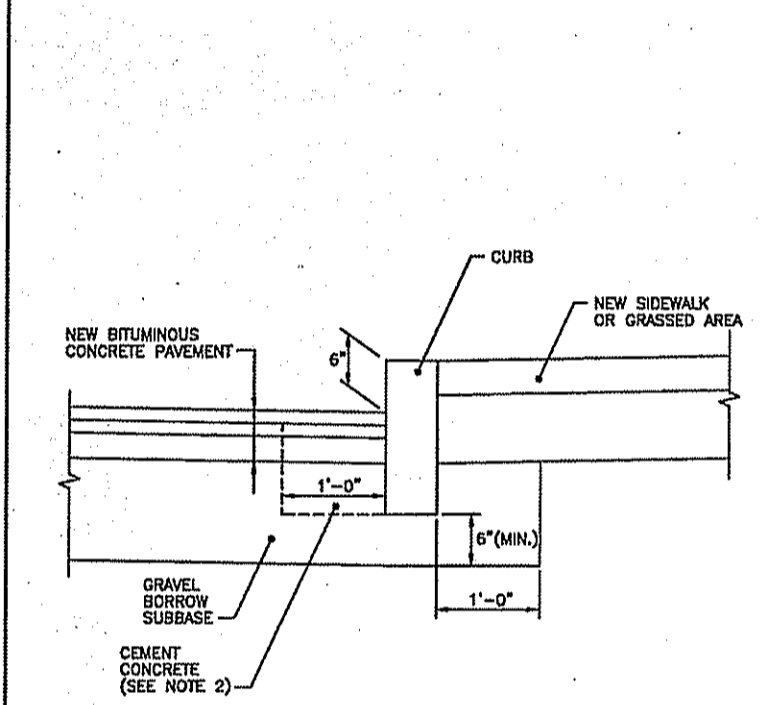
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 GRANITE CURB
 R.I. STANDARD 7.3.0
 DATE: 6/15/98



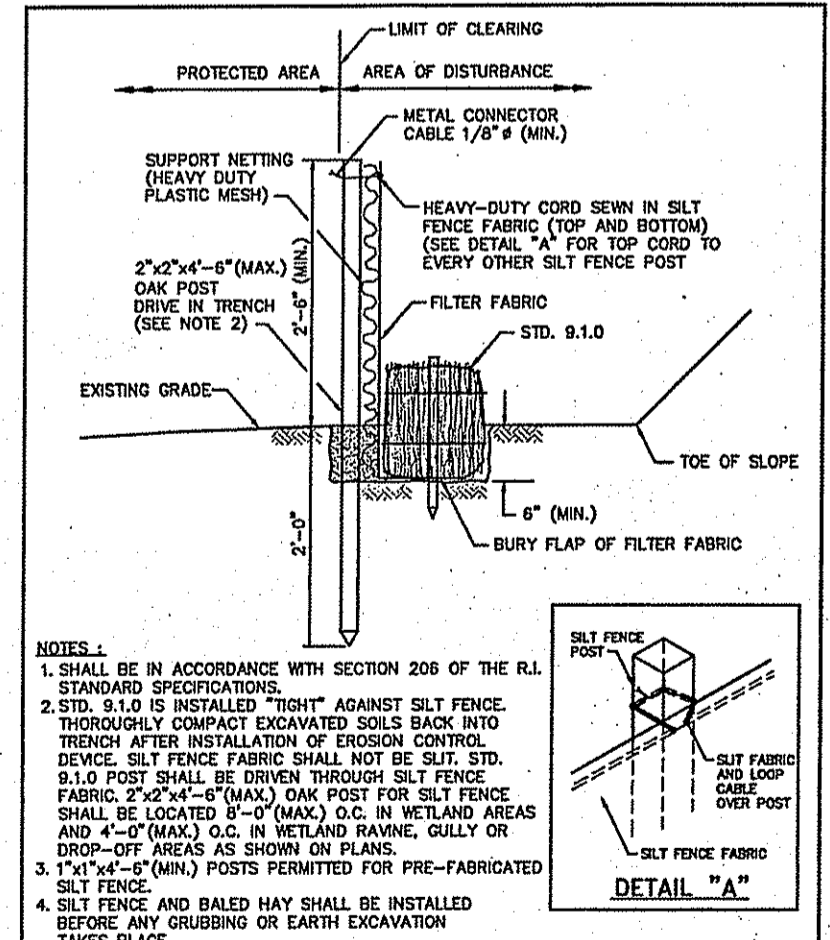
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 GRANITE 2'-0" RADIUS CORNER
 R.I. STANDARD 7.3.4
 DATE: 6/15/98



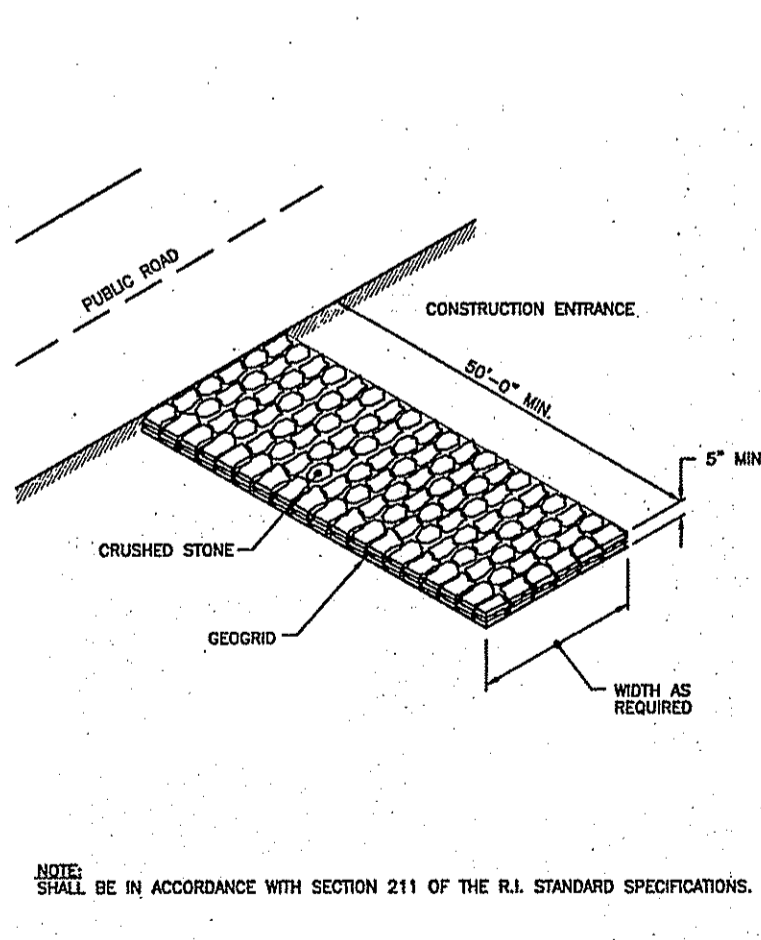
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 BITUMINOUS BERM
 R.I. STANDARD 7.5.1
 DATE: 6/15/98



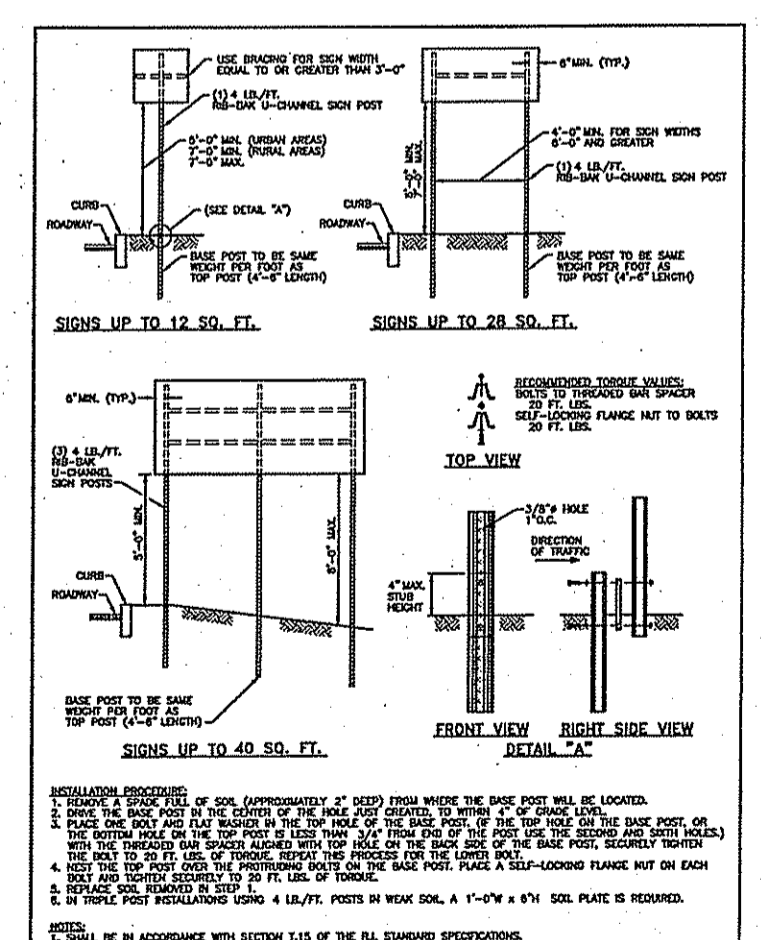
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 CURB SETTING DETAIL
 R.I. STANDARD 7.6.0
 DATE: 6/15/98



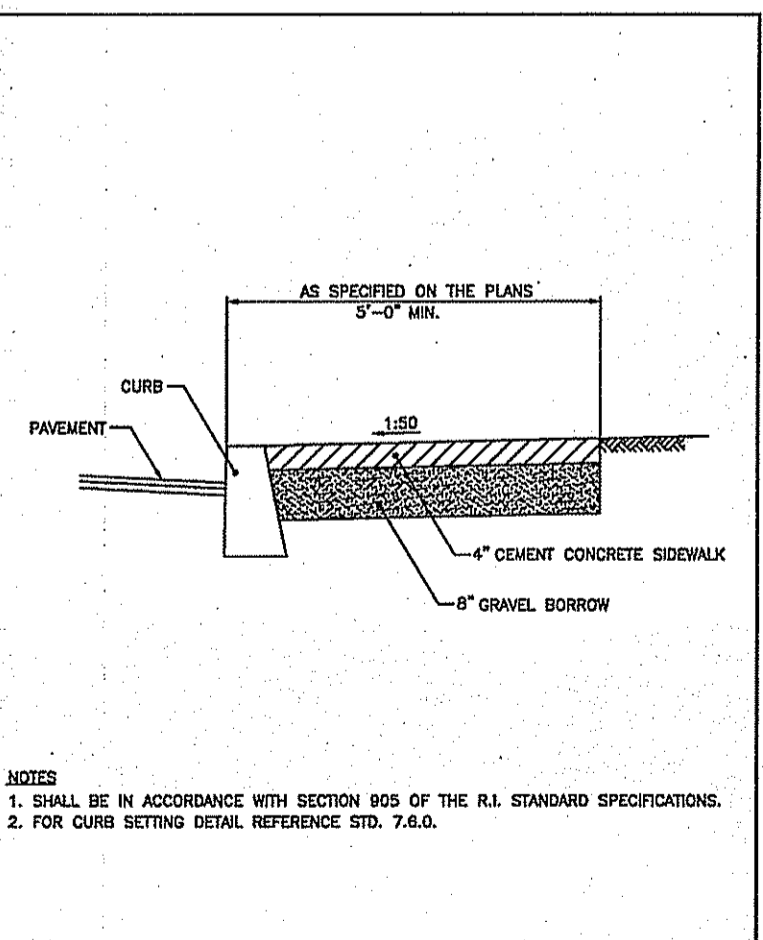
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 BALED HAY EROSION CHECK AND SILT FENCE COMBINED
 R.I. STANDARD 9.3.0
 DATE: 6/15/98



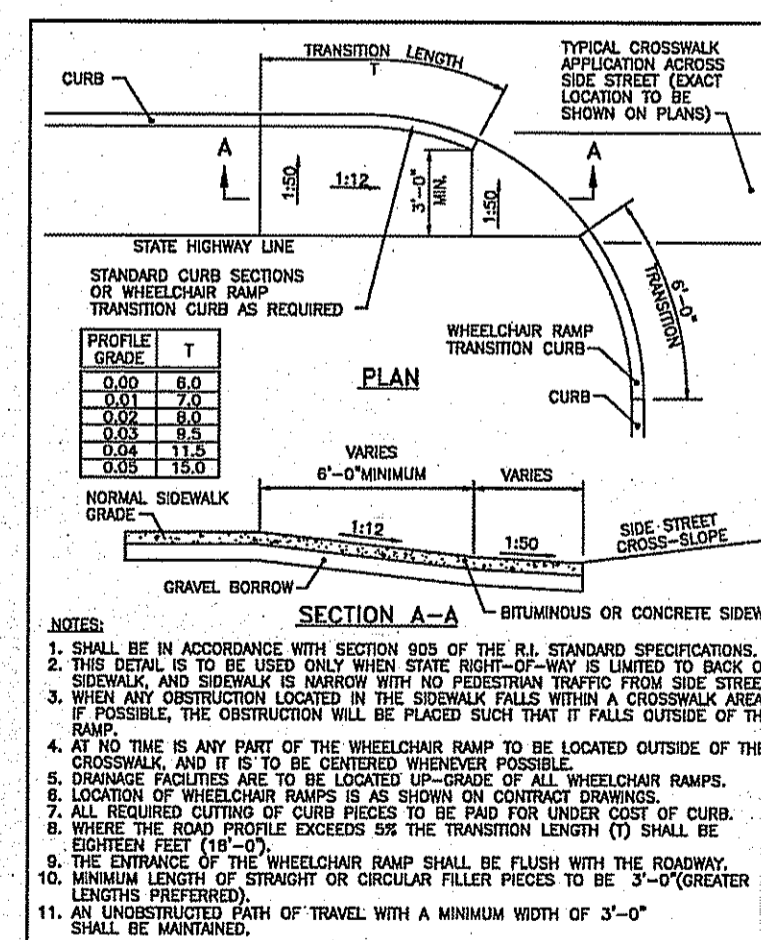
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 R.I. STANDARD 9.9.0
 DATE: 6/15/98



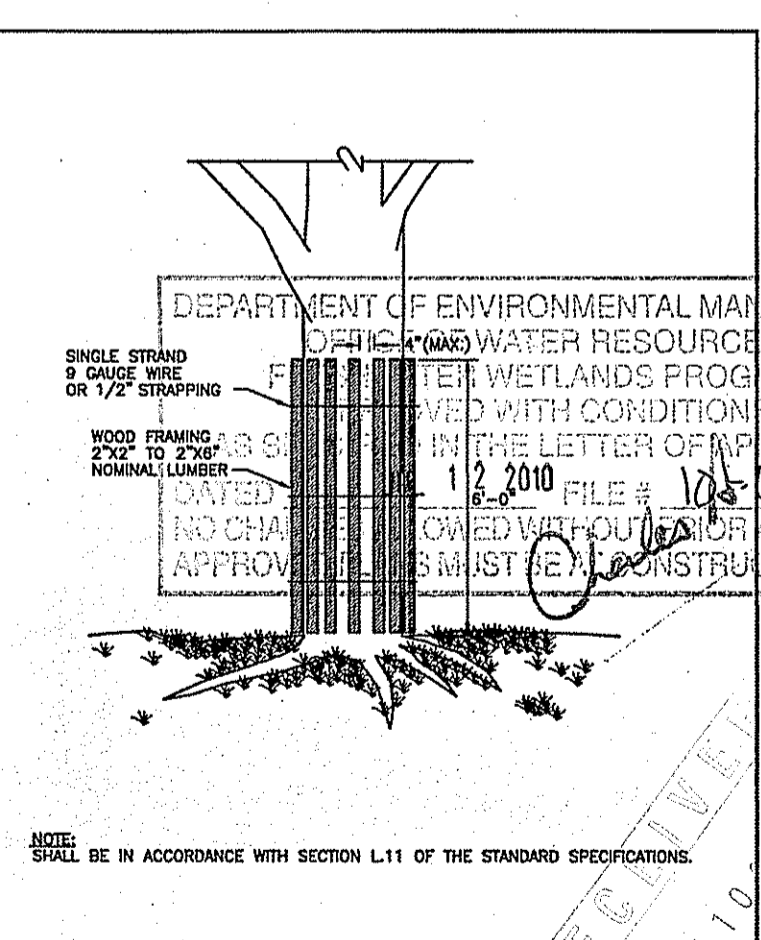
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 SIGN POST SELECTION AND INSTALLATION DETAILS
 R.I. STANDARD 14.2.0
 DATE: 6/15/98



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 CEMENT CONCRETE SIDEWALK
 R.I. STANDARD 14.3.1
 DATE: 6/15/98



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
 R.I. STANDARD 14.3.1
 DATE: 6/15/98



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 TREE PROTECTION DEVICE
 R.I. STANDARD 15.1.0
 DATE: 6/15/98

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REVISED 100% PRE-FINAL SUBMISSION - 05/11/10

PARE ARCHITECTS
 PARE CORPORATION
 8 BLACKSTONE VALLEY PLACE
 UPLAND, MA 01568
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NAVAC
 SCOTT D. LINDGREN
 No. 8036
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 APPROVED: 05/11/10
 DATE: 05/11/10
 DES: DRW: CHK:
 BRANCH MANAGER
 CHIEF ENG/ARCH: DWG:
 FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
 NORTHWEST FT
 NAVAL UNDERSEA WARFARE CENTER
 NEWPORT, RHODE ISLAND
 P-112V ADDITION TO BUILDING 1176
 CIVIL DETAILS 4

SCALE: NOT TO SCALE
 PROJECT NO.: 543292
 CONSTR. CONTR. NO.: N40085 - 09 - C - 7010
 NAVAC DRAWING NO.: 12557455
 SHEET 10 OF 10
 C109
 DRAWING REVISION: 10 MARCH 2009

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