

SURVEY NOTES

1. SURVEYED JUNE 2013 BY HANOVER DESIGN SERVICES, P.A.
2. AREA COMPUTED BY COORDINATE METHOD.
3. ALL DISTANCES ARE HORIZONTAL
4. HORIZONTAL DATUM NAD 1983 (2011)
5. VERTICAL DATUM NAVD 88
6. UNDERGROUND UTILITIES ESTABLISHED BY ACTUAL VISIBLE LOCATION AND FROM INFORMATION PROVIDED BY THE PORT (PORT GIS DATA)

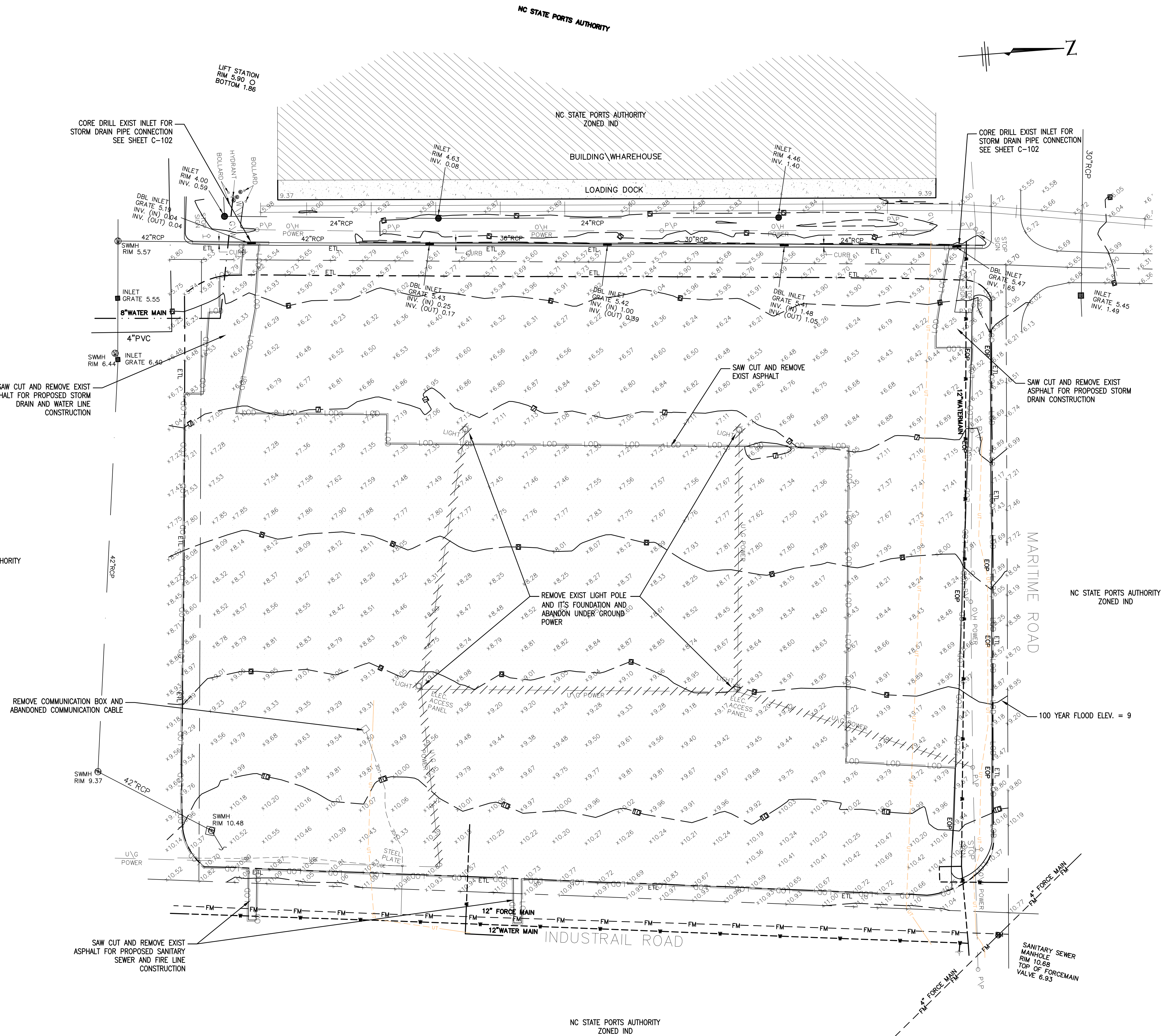
SURVEY LEGEND

- E.I.P. = EXISTING IRON PIPE
- E.I. = EXISTING IRON
- E.C.M. = EXISTING CONCRETE MONUMENT
- R/W = RIGHT OF WAY
- C.P.N. = COMPUTED POINT
- P.V. = POWER POLE
- G.W. = GUY WIRE
- DBL = DOUBLE
- INV. = INVERT
- EOP = EDGE OF PAVEMENT
- ETL = EDGE OF TRAVEL LANE
- SWMH = STORM WATER MANHOLE
- SSMH = SANITARY SEWER MANHOLE
- O.V. = OVERHEAD POWER
- U.V. = UNDER GROUND

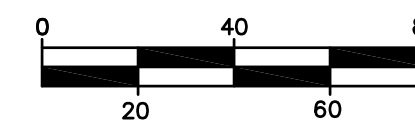
DEMOLITION NOTES

1. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES AND COORDINATION DEMOLITION AND / OR RELOCATION WORK. REPORT ANY CONFLICTS TO ENGINEER AND OWNER.
2. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING OR OTHER PHYSICAL BARRIERS AT THE PROJECT T BOUNDARY OF WORK ACTIVITIES TO KEEP NON CONTRACTOR PERSONNEL OUT OF THE WORK AREAS. CONTRACTOR SHALL PROVIDE WARNING SIGNS THAT DESIGNATE THE PRESENCE OF CONSTRUCTION HAZARDS AND REQUIRE UNAUTHORIZED PERSONS TO KEEP OUT. SIGNS SHOULD BE POSTED EVERY 300' ON ALONG THE PERIMETER BARRIER.

NC STATE PORTS AUTHORITY
ZONED IND



NC STATE PORTS AUTHORITY
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SCALE: 1"=40'



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2014 4-2

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Print Record

Revision Record

ISSUE DATE
01 JULY 2014

CATLIN JOB #: 213053
JOB A285

EXISTING AND
SITE DEMO

C-100

EROSION CONTROL NOTES

- PERFORM CONSTRUCTION ACTIVITIES IN COMPLIANCE WITH THE SEDIMENTATION POLLUTION CONTROL ACT OF 1973.
- PLAN AND CONDUCT LAND DISTURBING ACTIVITIES TO LIMIT EXPOSURE OF BARE EARTH FOR THE SHORTEST POSSIBLE TIME.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND CONTRACTORS GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY UNSUITABLE SOILS.
- CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
- THE CONTRACTOR SHALL FURNISH ANY REQUIRED BORROW MATERIALS FROM A PROPERLY PERMITTED OFF-SITE FACILITY.
- STABILIZE DISTURBED AREAS BY THE PLANTING AND ESTABLISHMENT OF PERMANENT AND UNIFORM GROUND COVER.
- PROVIDE SEDIMENT AND EROSION CONTROL MEASURES AT TEMPORARY CONSTRUCTION STAGING AREAS TO PREVENT OFF SITE SEDIMENTATION. TEMPORARY CONSTRUCTION STAGING AREAS TO BRING THE SITE BACK TO ITS NATURAL STATE UPON COMPLETION OF THE PROJECT.
- INSPECT SEDIMENT AND EROSION CONTROL MEASURES AFTER EACH 1/2" RAINFALL AND WEEKLY TO INSURE THEY ARE FUNCTIONAL AND IN GOOD WORKING CONDITION. REMOVE SEDIMENT DEPOSITION ACCUMULATION PERIODICALLY TO MAINTAIN UNIT EFFECTIVENESS. COMPLETE AND MAINTAIN THE SELF INSPECTION AND MONITORING REPORTS ON SITE AT ALL TIMES.
- OVER THE DURATION OF THE PROJECT, DENR SHALL MAKE PERIODIC AND UNSCHEDULED INSPECTIONS TO EVALUATE THE EFFECTIVENESS OF ALL EROSION CONTROL MEASURES. IF EROSION OCCURS, DENR AND THE OWNER SHALL NOTIFY THE CONTRACTOR TO TAKE ADEQUATE STEPS TO REMEDY THE SITUATION.
- REPLACE OR REPAIR CULVERTS, DITCH-LINES, OR RIP-RAP DISTURBED BY THIS CONSTRUCTION TO AN EQUAL OR BETTER CONDITION TO THAT PRIOR TO DISTURBANCE.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE STATE ENGINEERING DEPARTMENT, INSPECTOR, OWNER, OR ENGINEER.
- SLOPES SHALL BE GRADED NO STEEPER THAN 3:1.
- ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY THE FIELD INSPECTOR, ENGINEER, AND OWNER.
- IF ACTIVE CONSTRUCTION CEASES IN ANY AREA FOR MORE THAN 15 CALENDAR DAYS, ALL DISTURBED AREAS MUST BE SEEDED, MULCHED, AND TACKED UNLESS WRITTEN APPROVAL IS GRANTED BY THE EROSION CONTROL OFFICER.
- STABILIZATION

SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:

ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

CONDITIONS - IN MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.

ALL SLOPES 50' IN LENGTH OR GREATER SHALL APPLY THE GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE ARE STEEPER THAN 3:1, THE 7 DAY REQUIREMENT APPLIES.

ANY SLOPED AREA FLATTER THAN 4:1 SHALL BE EXEMPT FROM THE 7 DAY GROUND COVER REQUIREMENT.

SLOPES 10' OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7 DAY GROUND COVER REQUIREMENT.

ALTHOUGH STABILIZATION IS USUALLY SPECIFIED AS GROUND COVER, OTHER METHODS, SUCH AS CHEMICAL STABILIZATION, MAY BE ALLOWED ON A CASE BY CASE BASIS.

16. SOIL TYPES FOR THIS SITE ARE:

Ur: URBAN LAND

- THIS PROJECT IS WITHIN THE CAPE FEAR RIVER BASIN, THE RECEIVING WATERS IS THE CAPE FEAR RIVER, CLASSIFICATION IS SC.
- THE TOTAL LIMITS OF DISTURBANCE AREA IS 5 ACRES.
- PROVIDE GROUNDCOVER IN ACCORDANCE WITH NPDES CONSTRUCTION STORMWATER GENERAL PERMIT NCG010000 AND PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

CONSTRUCTION SEQUENCE

- OBTAIN ALL NECESSARY PERMIT APPROVALS PRIOR TO ANY LAND DISTURBING ACTIVITY.
- HOLD A PRE-CONSTRUCTION MEETING WITH NCDENR EROSION CONTROL INSPECTOR.
- INSTALL GRAVEL CONSTRUCTION ENTRANCE, INLET PROTECTION AND SILT FENCE, COMMENCE DEMOLITION, CLEARING AND ROUGH GRADING.
- ROUGH GRADE SITE AND DRAINAGE SWALE, INSTALL CHECK DAMS IN SWALE.
- BEGIN CONSTRUCTION OF UNDERGROUND UTILITIES AND SWALE ALONG EASTERN PORTION OF THE SITE.
- CONSTRUCT BUILDING FOUNDATION, WALLS, AND ROOF PRIOR TO FILLING OPERATIONS FOR BUILDING FINISHED FLOOR ELEVATION. BUILDING SHALL BE WEATHERPROOF PRIOR TO IMPORTING BACKFILL MATERIAL.
- ALL WEEP HOLES ALONG PERIMETER STEM WALLS SHALL BE PROTECTED WITH 1 CF OF #57 STONE.
- IMPORT BACKFILL MATERIAL TO REQUIRED SUBGRADE ELEVATIONS.
- ALL DEWATERING ACTIVITIES SHALL PASS THROUGH A FILTER BAG BEFORE DISCHARGING IN SWALE B'S CHECK DAM.
- INSTALL REMAINING UTILITIES.
- CONSTRUCT REMAINING PORTIONS OF PAVED SURFACES.
- PROVIDE TEMPORARY PROTECTION MEASURES AND DEVICES AS REQUIRED UNTIL UNDERGROUND UTILITIES AND PAVEMENT ARE COMPLETE AND FINAL GRADES ARE STABILIZED WITH PAVEMENT OR TEMPORARY VEGETATIVE COVER.
- STABILIZE (FERTILIZE, SEED, AND MULCH) ALL UNPAVED DISTURBED AREAS AS SOON AS FINAL GRADES ARE ESTABLISHED.
- ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE STABILIZED, OBTAIN NCDENR'S APPROVAL TO REMOVE TEMPORARY EROSION CONTROL MEASURES.

GRADING NOTES

- ALL EXCAVATION, GRADING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH COMMON PRACTICES, GEOTECHNICAL REPORT AND THE GOVERNING ENTITY'S TECHNICAL STANDARDS.
- INITIATE EROSION CONTROL SEQUENCE BEFORE BEGINNING ANY CLEARING, GRUBBING AND GRADING OPERATIONS.
- CLEAR AREAS TO BE GRADED OF ALL VEGETATION. PROTECT VEGETATION BEYOND GRADING LIMITS.
- STRIP TOPSOIL TO FULL DEPTH IN AREAS TO BE GRADED AND STOCKPILE.
- COMPACT ALL FILL AREAS TO 95% OF ASTM D1557 MAXIMUM DENSITY. THE MINIMUM COMPACTION OF ABC STONE SHALL BE 100% OF ASTM D1557.
- ALL BANKS AND SWALE SIDE SLOPES SHALL BE GRADED WITH NO GREATER THAN 3:1 SLOPES UNLESS OTHERWISE NOTED.
- ALL AREAS ARE TO BE GRADED SO THAT NO AREAS OF STANDING WATER OCCUR.
- PROPOSED SPOT ELEVATIONS ARE SHOWN AT FINISHED GRADE.
- OPERATOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.
- IMPORT FILL FOR BUILDING GRADES AND ADJACENT TO ANY STRUCTURE SHALL BE CLASSIFIED AS SOIL GROUP SP, SM, SC OR SW OR A COMBINATION OF THE FOUR. LIFTS SHALL NOT EXCEED 8" AND SHALL BE COMPACTED TO 95% OF ASTM D 1557. COMPACTION TESTING SHALL BE PERFORMED FOR EVERY 2500 SQUARE FEET OF FILL AREA.
- AREAS FOR NEW PAVING SHALL BE PROOFROLLED WITH A HEAVY SMOOTH DRUM ROLLER OR A LOADED TANDEM AXLE DUMP TRUCK TO IDENTIFY REGIONS OF YIELDING SOIL. NOTIFY ENGINEER OF ANY AND ALL UNSUITABLE SOIL AND FOR DIRECTION ON REPAIR TO THE UNSUITABLE SOIL AREA.

SEED SCHEDULE

- FOLLOW RECOMMENDATIONS OF SOIL TEST OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER.
- APPLY 4,000 LBS/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL.
- A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
- RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.
- RESEED AND MULCH AREAS WHERE SEEDING EMERGENCE IS POOR, OR WHEN EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.

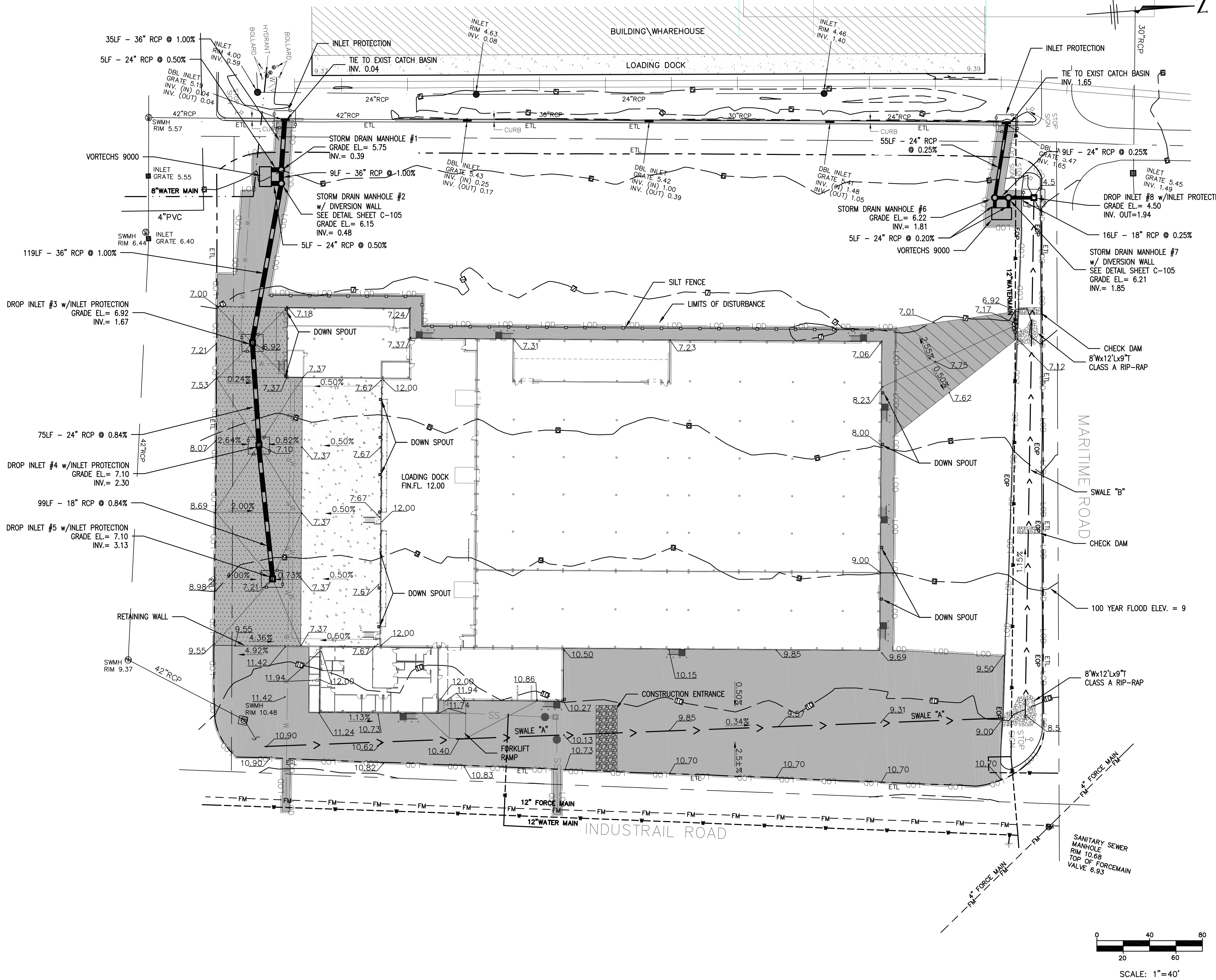
TEMPORARY SEEDING

GRASS TYPE	AMOUNT/ 1000 S.F.	TIME OF SEEDING	INITIAL
RYE GRAIN	1-2 LBS.	AUG 15 - DEC 31	25 LBS. 10-10-10
GERMAN MILLET	1-2 LBS.	MAY 1 - AUG 14	25 LBS. 10-10-10
RYE GRAIN AND ANNUAL LESPEDEZA	2-3 LBS. 1-1.5 LBS	JAN 1 - APR 30	25 LBS. 10-10-10

PERMANENT SEEDING

GRASS TYPE	AMOUNT/ 1000 S.F.	TIME OF SEEDING	INITIAL
BERMUDA, COMMON	1-2 LBS.	APRIL THRU JUNE	25 LBS. 10-10-10
FESCUE, TALL (KENTUCKY 31)	5-7 LBS.	JUNE THRU AUG. FEB. THRU OCT.	25 LBS. 10-10-10
SERICEA LESPEDEZA (SLOPES)	1-2 LBS.	MARCH THRU APRIL	25 LBS. 10-10-10

STABILIZATION TIMEFRAMES (Effective Aug. 3, 2011)		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.



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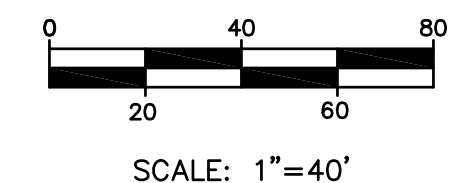
PROFESSIONAL ENGINEER
WILMINGTON, NORTH CAROLINA
JULIAN W. JAMISON
2014 4-2

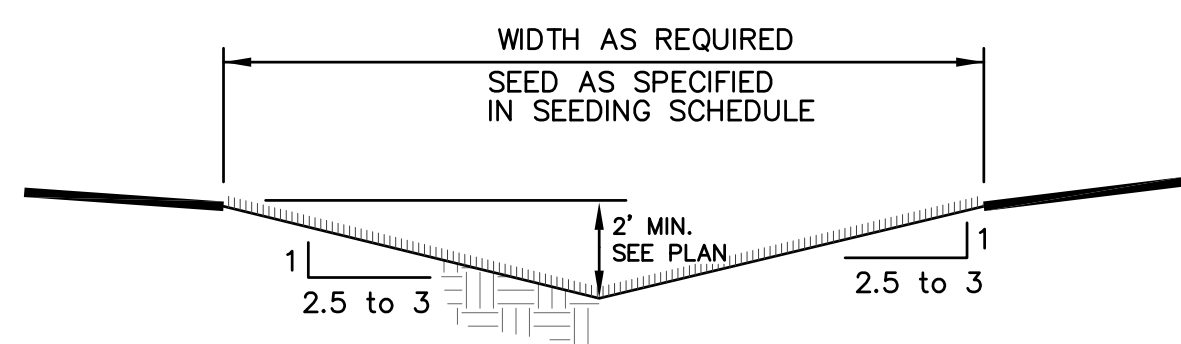
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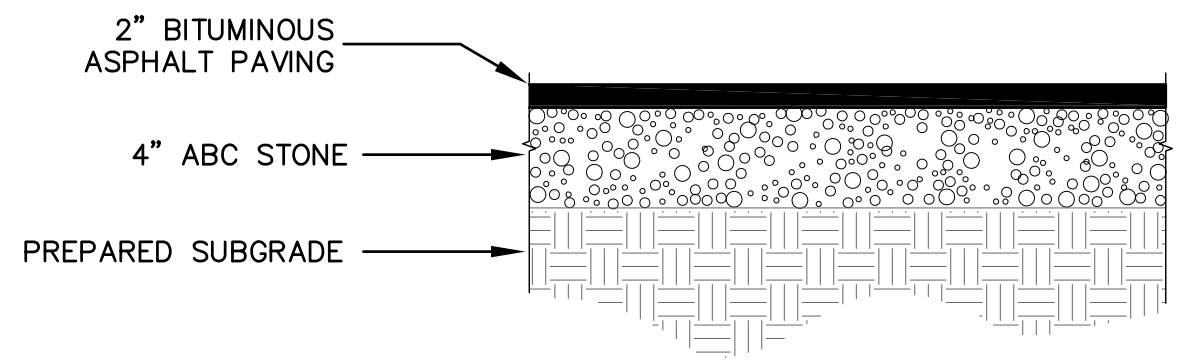
ISSUE DATE
01 JULY 2014
CATLIN JOB #: 213053
JOB A285
GRADING,
DRAINAGE &
EC PLAN
C-102





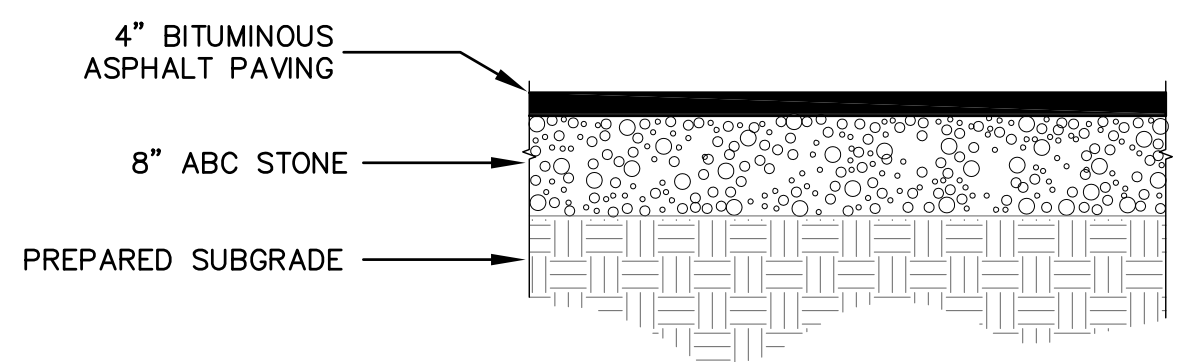
NOTE:
SWALE IS TO BE CONSTRUCTED PER ELEVATIONS SHOWN ON THE GRADING PLAN C-102

SWALE "B" SECTION
NOT TO SCALE



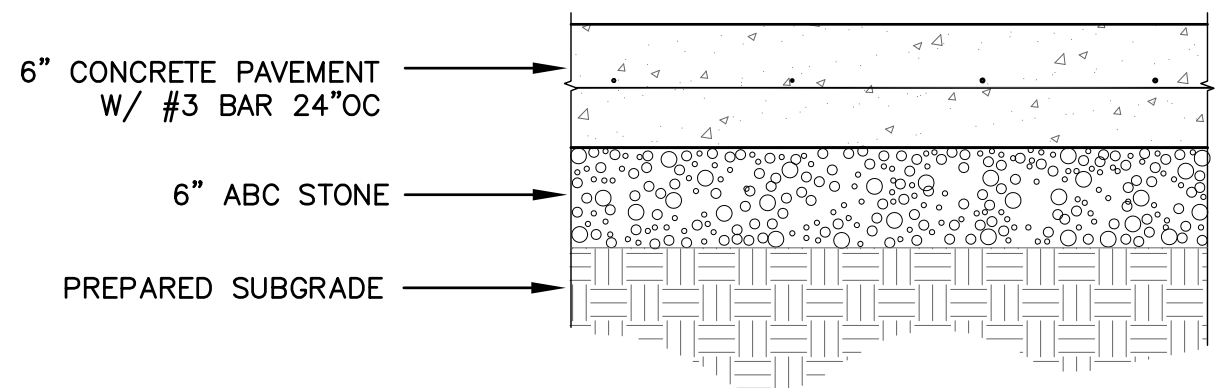
NOTE:
1. SEE GRADING NOTES ON SHEET C-102 FOR ADDITIONAL REQUIREMENTS.

LIGHT ASPHALT PAVEMENT SECTION
NOT TO SCALE



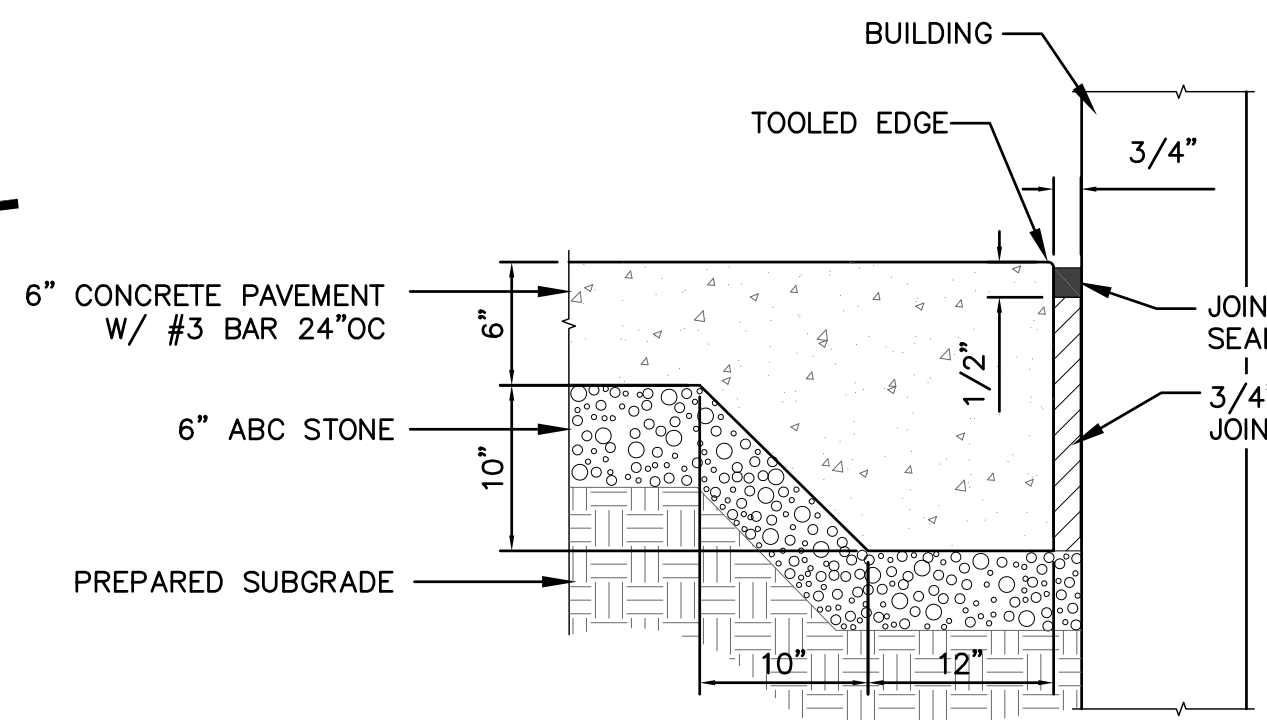
NOTE:
1. SEE GRADING NOTES ON SHEET C-102 FOR ADDITIONAL REQUIREMENTS.

HEAVY ASPHALT PAVEMENT SECTION
NOT TO SCALE

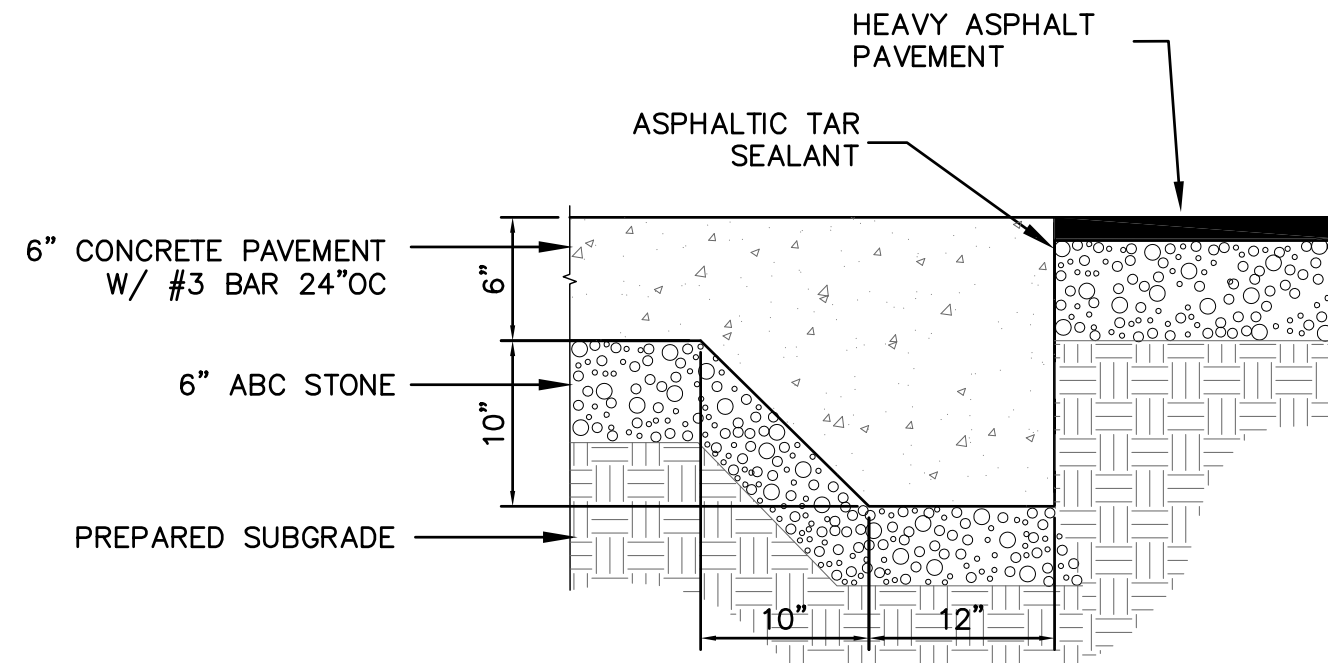


NOTE:
1. ALL NCDOT PAVEMENT (650 PSI FLEXURAL) CLASS CONCRETE
2. SEE GRADING NOTES ON SHEET C-102 FOR ADDITIONAL REQUIREMENTS.

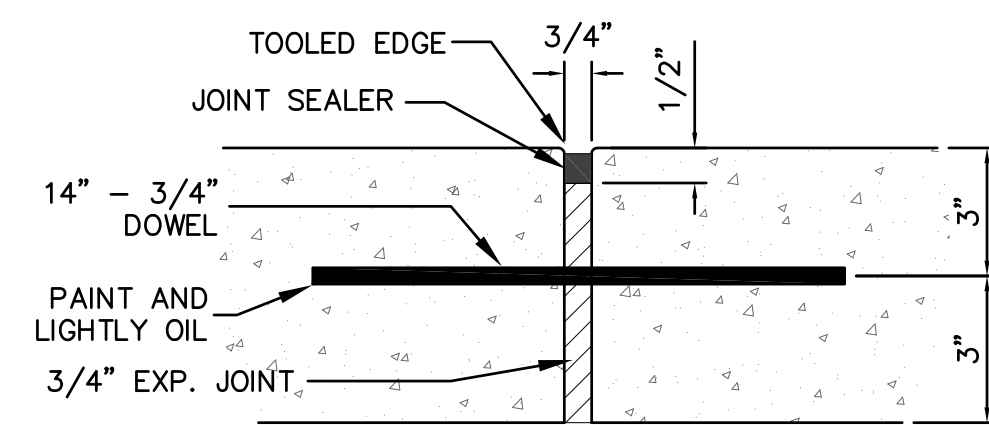
CONCRETE PAVEMENT SECTION
NOT TO SCALE



EXPANSION JOINT
NOT TO SCALE

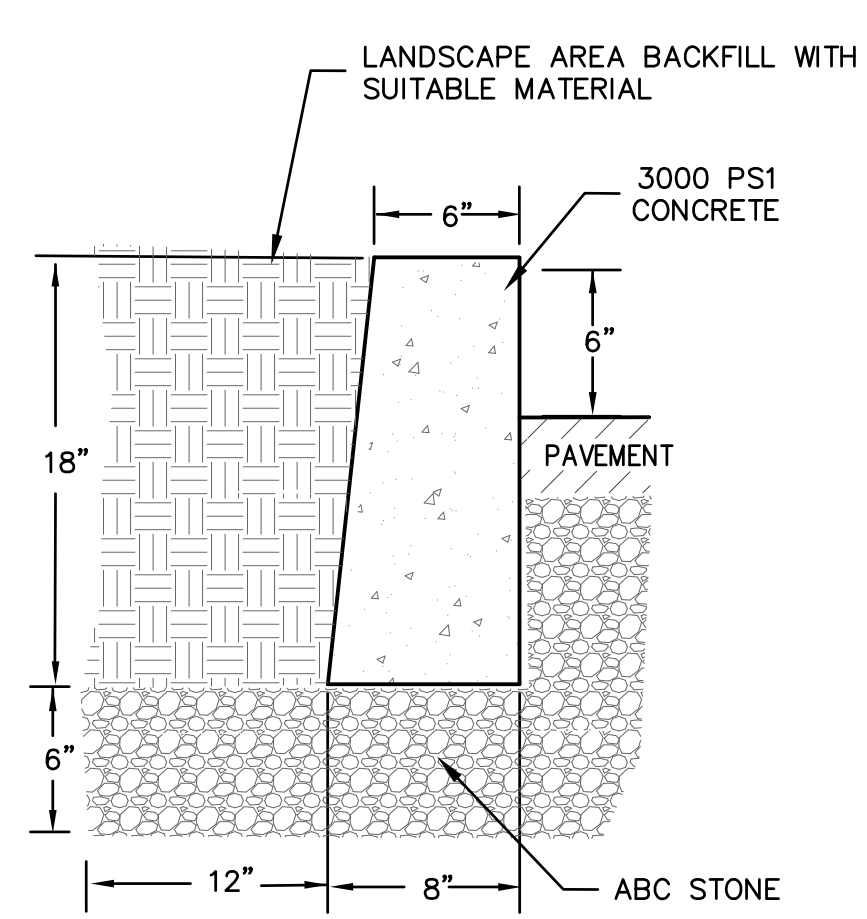


CONCRETE TO ASPHALT TRANSITION
NOT TO SCALE

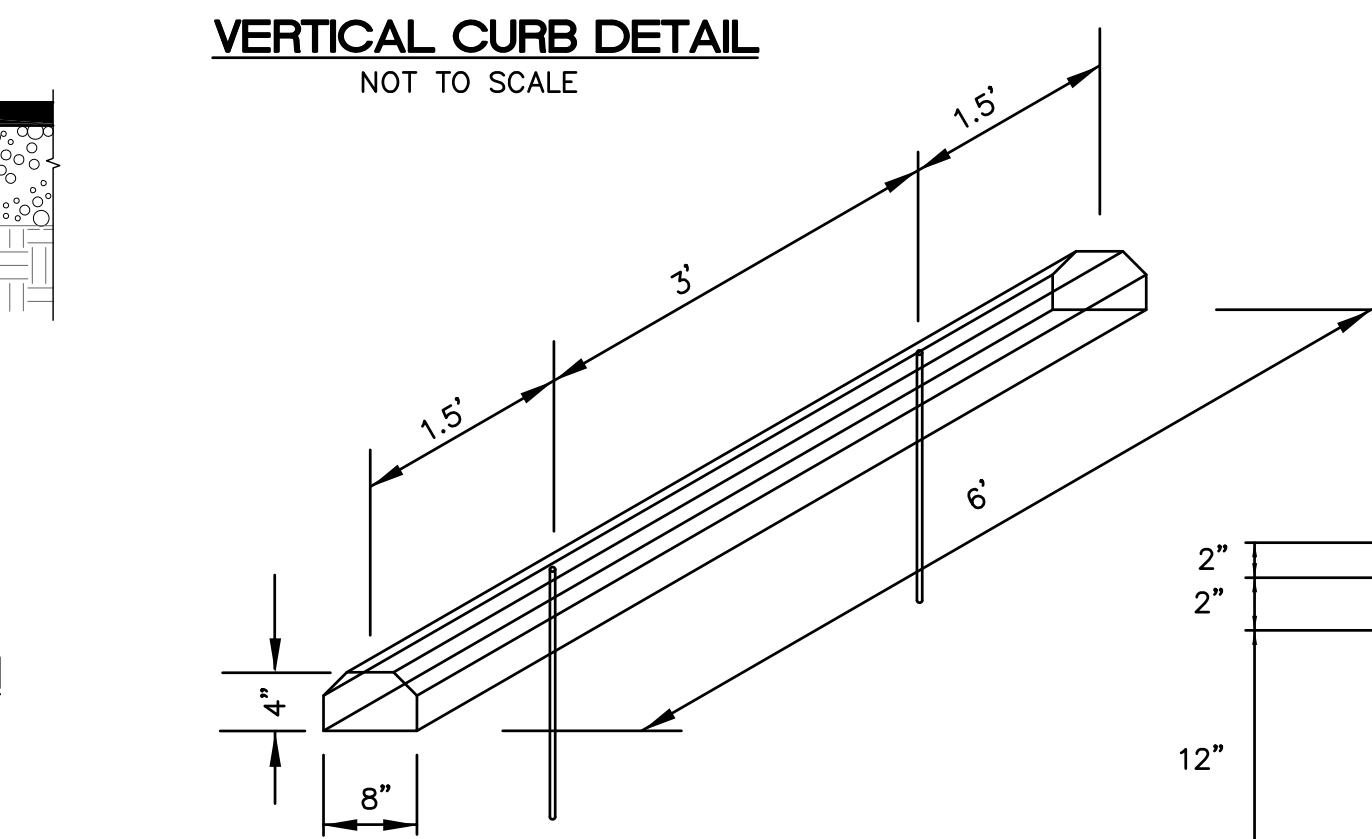


NOTE:
1. CONSTRUCTION JOINT DOWELS ARE TO BE INSTALLED EVERY 12" ALONG JOINT.

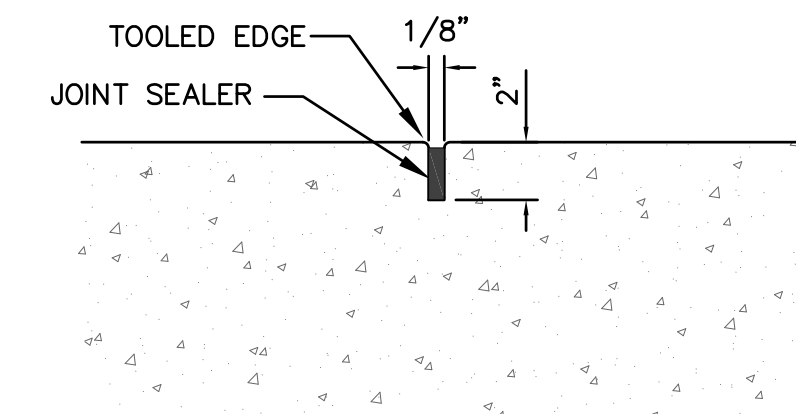
CONSTRUCTION JOINT
NOT TO SCALE



VERTICAL CURB DETAIL
NOT TO SCALE

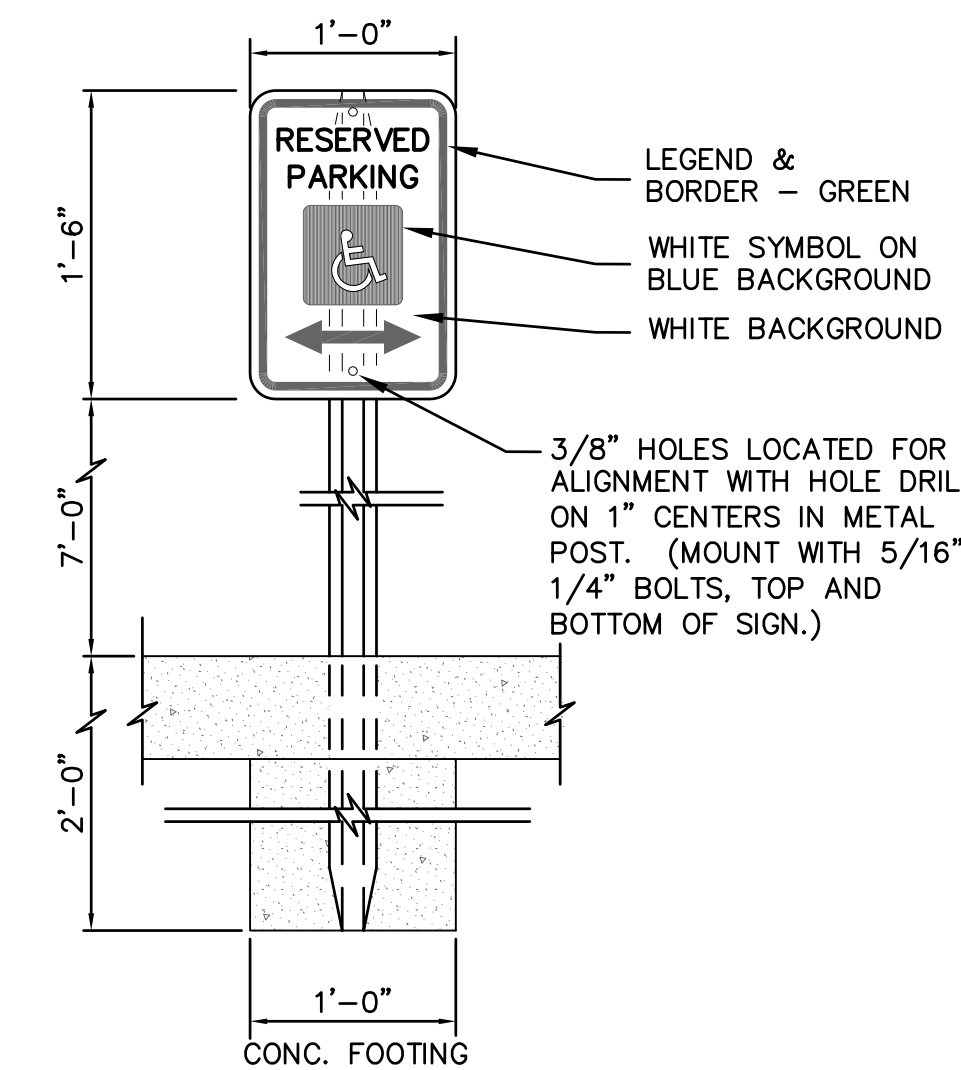


WHEEL STOP DETAIL
NOT TO SCALE

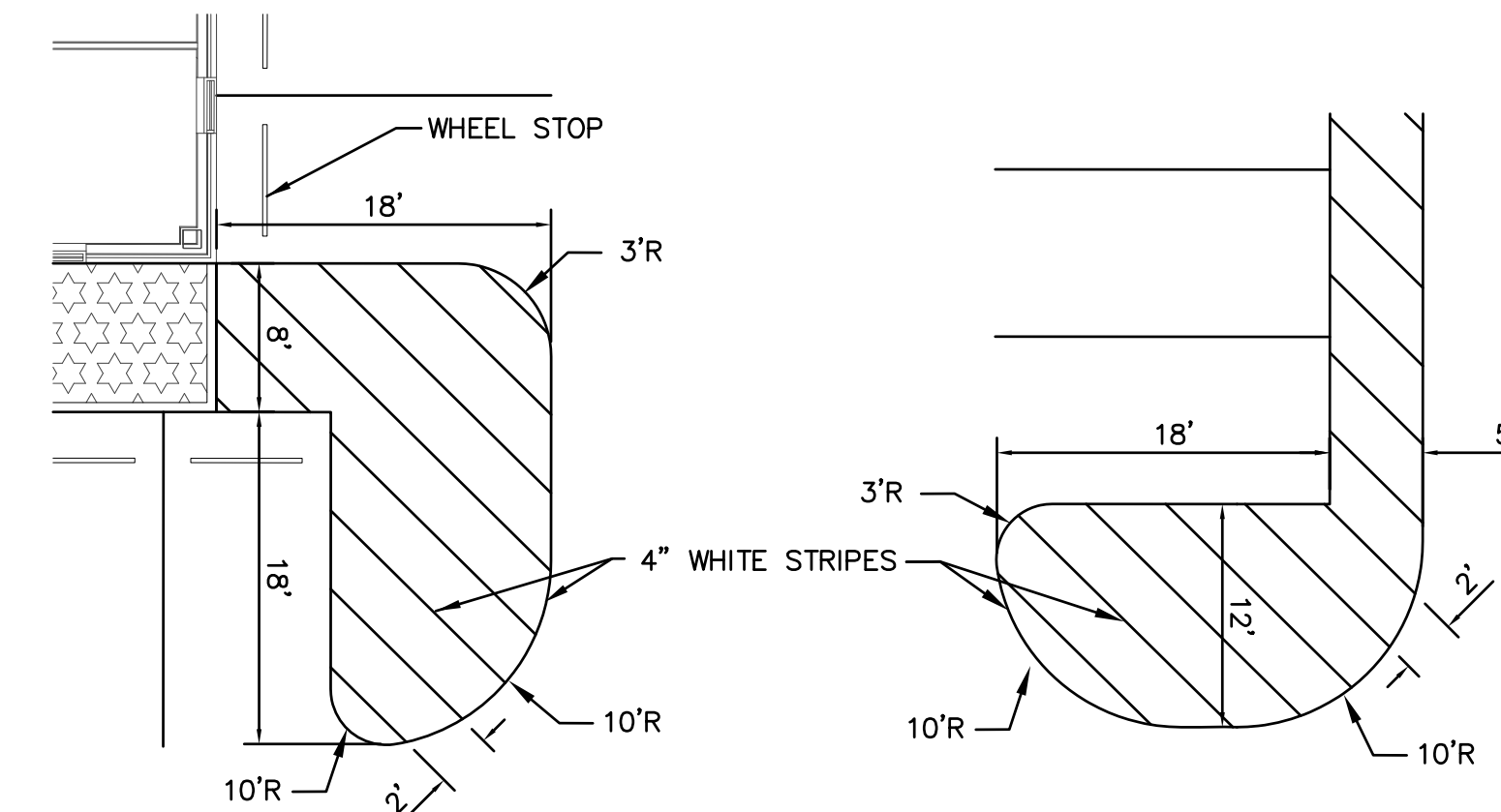


CONTROL JOINT
NOT TO SCALE

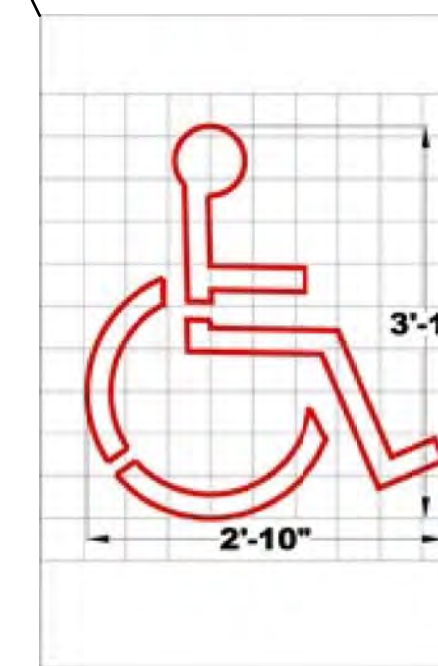
- METAL POSTS TO BE GALVANIZED. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE RUSTPROOF.
- CONCRETE FOR FOOTING SHALL BE OF PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I.
- SIGNS WILL BE FABRICATED BY USING A REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDERS APPLIED TO A SHEET ALUMINUM BACKING (0.80" IN THICKNESS).
- MESSAGE LETTERING SHALL BE UPPER CASE (SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE SYMBOL IS COMPOSED OF TWO ELEMENTS, A WHITE WHEEL-CHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FED. STD. 595a, COLOR #15180).
- SIGN POST SHALL BE MIN. 2'-0" CLEAR FROM BACK OF CURB.



TYPE R7-8 SIGN FOR THE PHYSICALLY HANDICAPPED
NOT TO SCALE

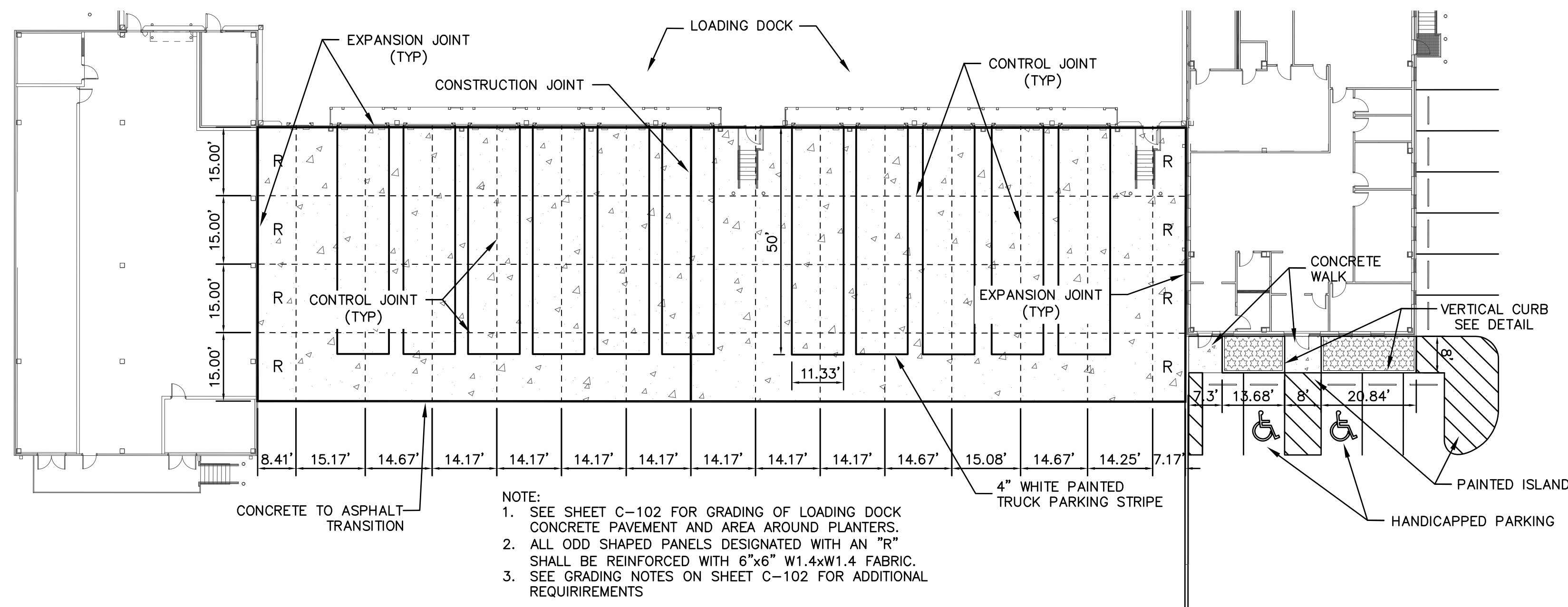


PAINTED ISLAND DETAILS
SCALE: 1"=10'



HANDICAPPED PARKING STALL

PARKING DETAIL
NOT TO SCALE



NOTE:
1. SEE SHEET C-102 FOR GRADING OF LOADING DOCK CONCRETE PAVEMENT AND AREA AROUND PLANTERS.
2. ALL ODD SHAPED PANELS DESIGNATED WITH AN "R" SHALL BE REINFORCED WITH 6"x6" W1.4xW1.4 FABRIC.
3. SEE GRADING NOTES ON SHEET C-102 FOR ADDITIONAL REQUIREMENTS

CONCRETE PAVEMENT JOINT LOCATION PLAN
SCALE: 1"=20'

PLANTER DETAIL
SCALE: 1"=20'

CONCRETE TO ASPHALT TRANSITION



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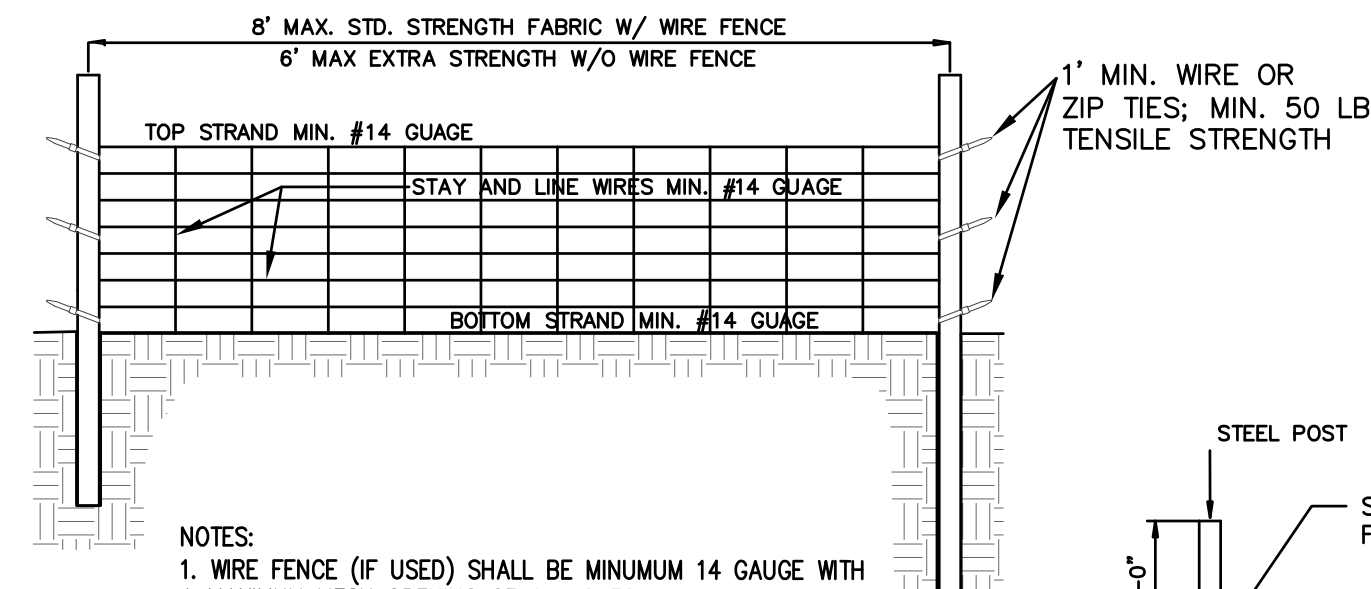
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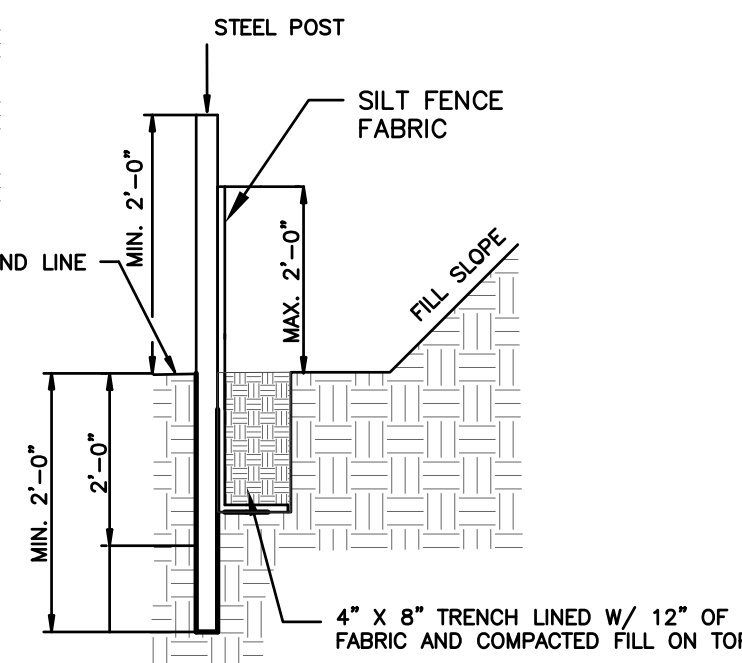
CATLIN JOB #: 213053
JOB A285

SITE DETAILS

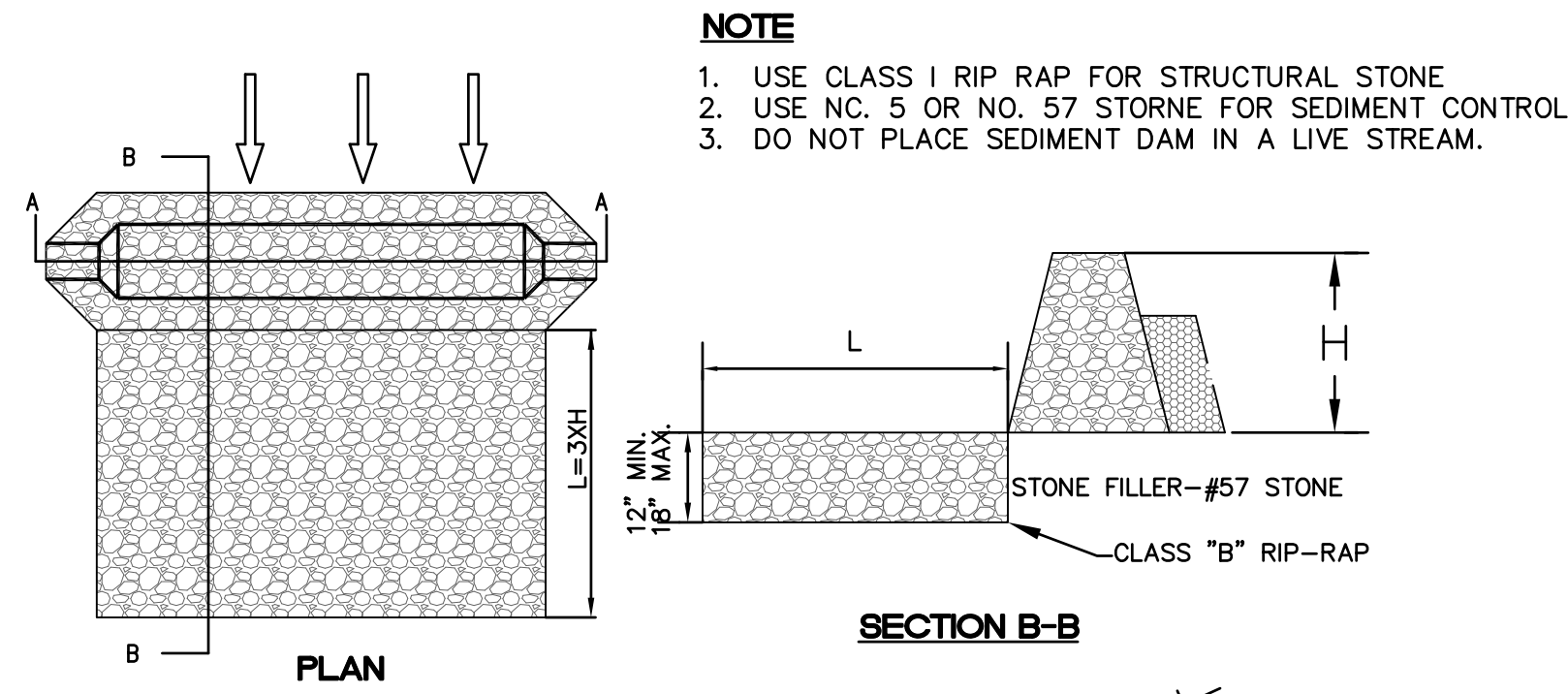


- NOTES:**
1. WIRE FENCE (IF USED) SHALL BE MINIMUM 14 GAUGE WITH A MAXIMUM MESH OPENING OF 6-INCHES.
 2. SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461 AND ALSO SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS ACCORDING TO ASTM D 4355.
 3. SEE THE NC EROSION CONTROL MANUAL FOR SPECIFICATIONS INSTALLING SEDIMENT FENCE USING THE SLICING METHOD MACHINERY.

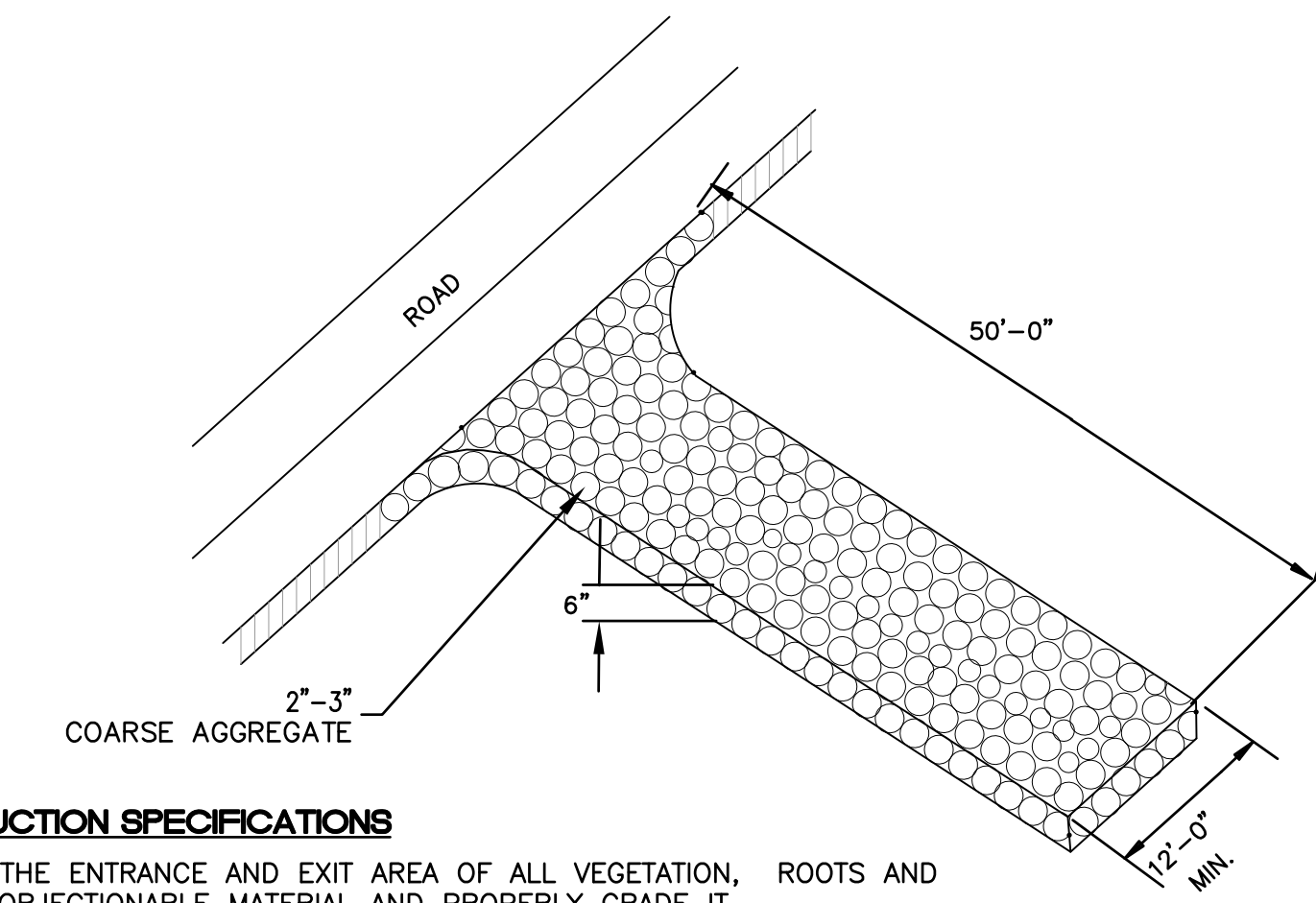
TEMPORARY SILT FENCE
NOT TO SCALE



SECTION A-A
ROCK CHECK DAM
NOT TO SCALE



- NOTE**
1. USE CLASS I RIP RAP FOR STRUCTURAL STONE
 2. USE NC. 5 OR NO. 57 STORNE FOR SEDIMENT CONTROL
 3. DO NOT PLACE SEDIMENT DAM IN A LIVE STREAM.



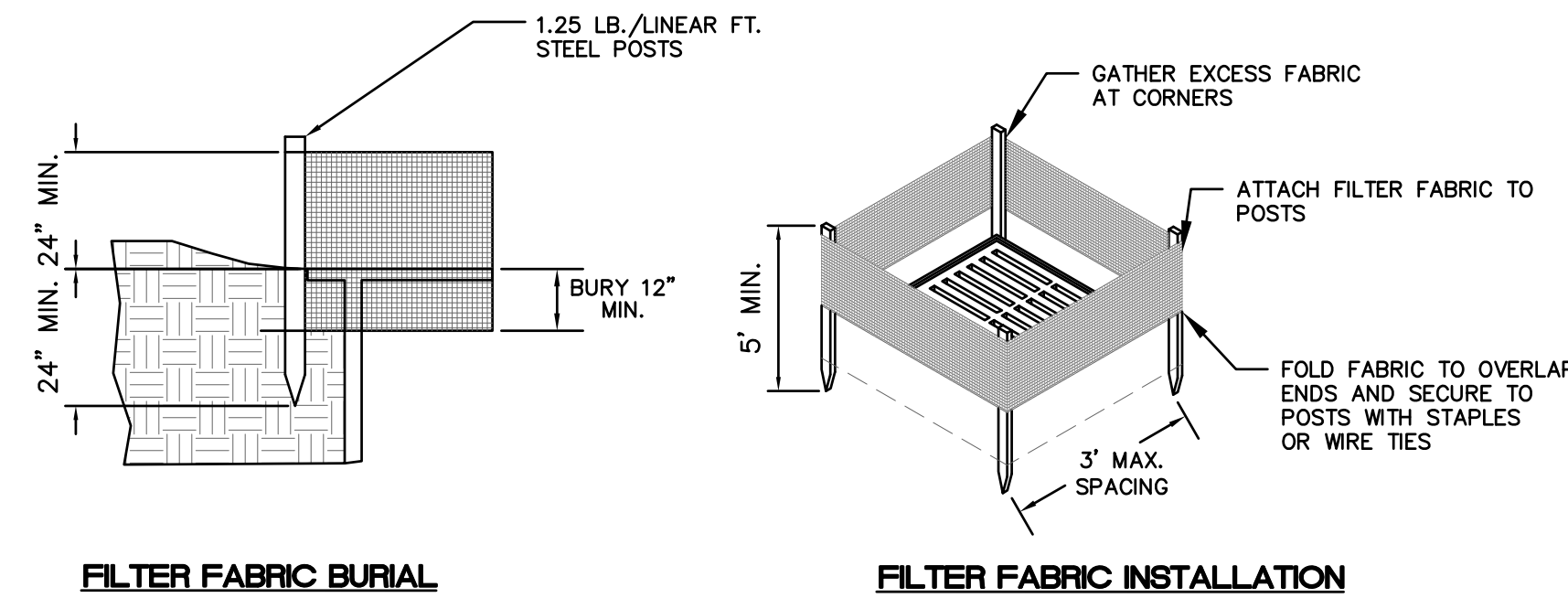
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS AND SMOOTH IT.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS.

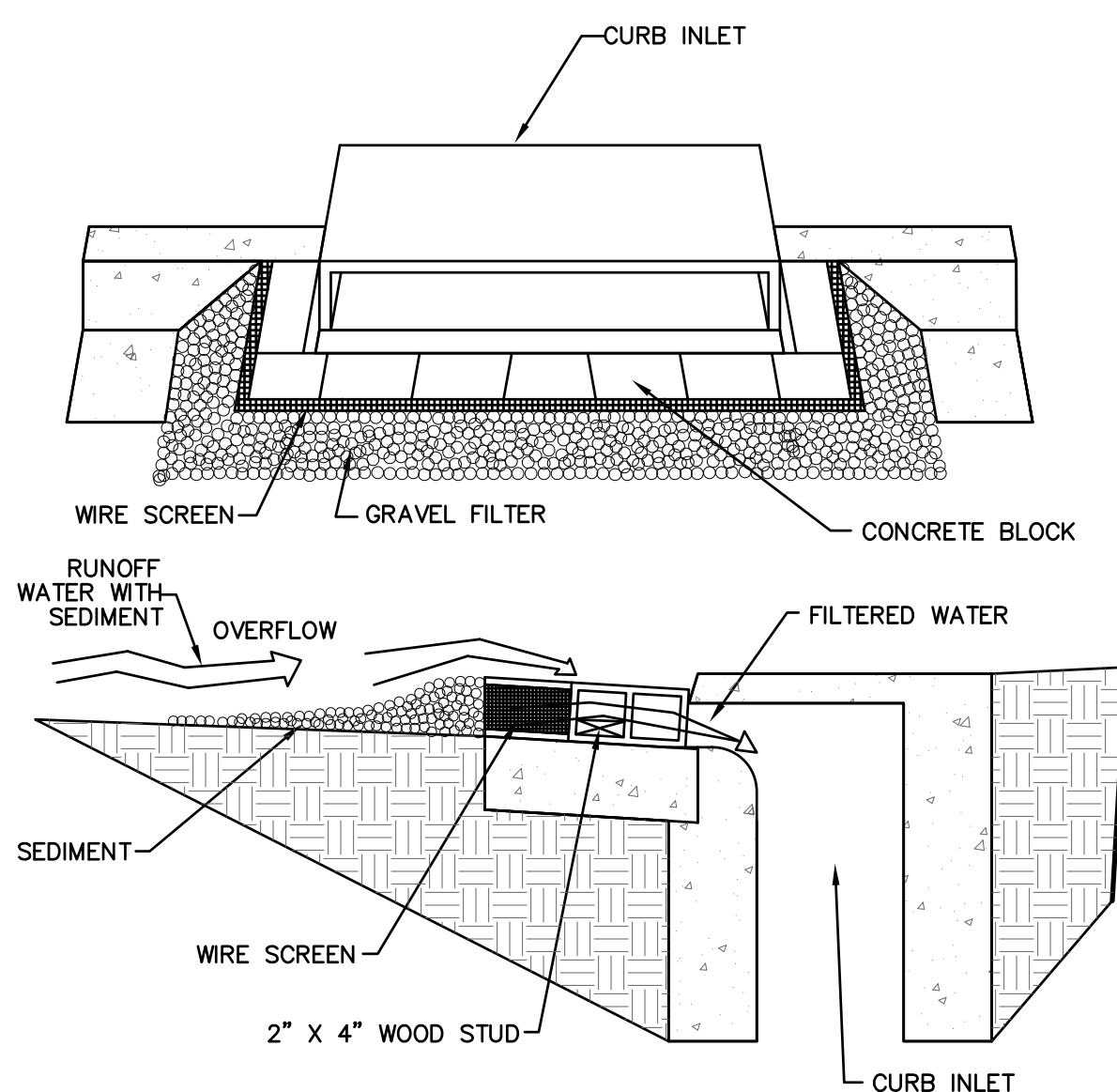
TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE



FILTER FABRIC BURIAL

FILTER FABRIC INSTALLATION

LOW FLOW INLET FILTERS



BLOCK AND GRAVEL INLET PROTECTION

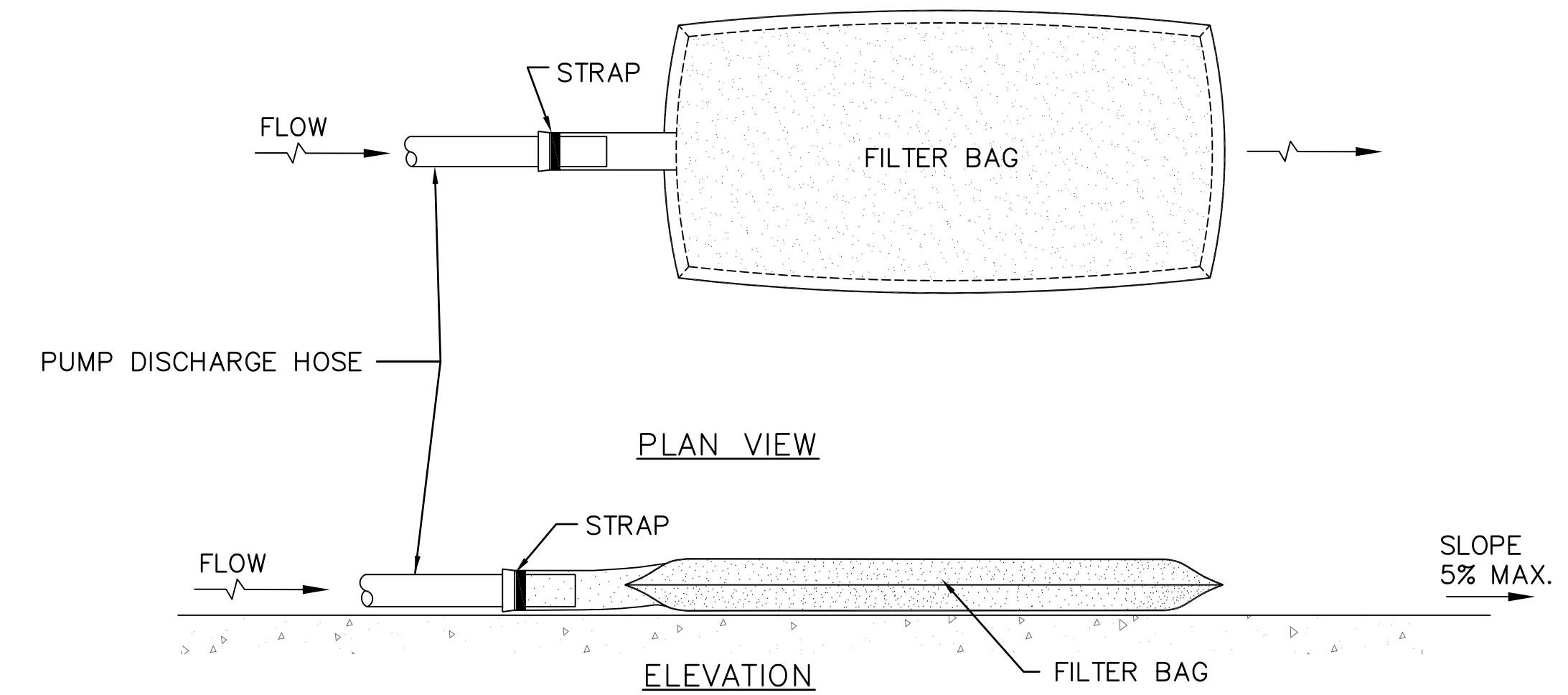
CONSTRUCTION SPECIFICATIONS

1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZE IT WITH GROUND COVER.

MAINTENANCE

1. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2" OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

INLET PROTECTION
NOT TO SCALE



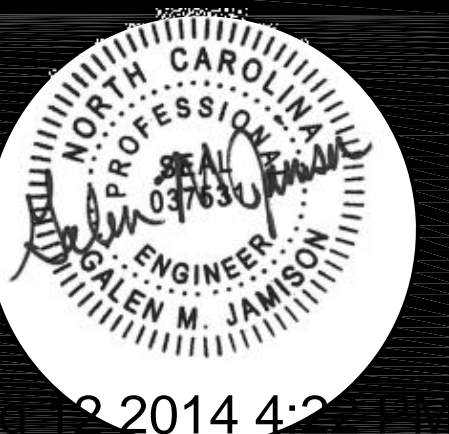
CONSTRUCTION SPECIFICATIONS:

1. TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
2. PLACE FILTER BAG ON SUITABLE BASE LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
3. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
4. REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
5. USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

GRAB TENSILE	250 LB	ASTM D-4632
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/FT ²	ASTM D-4491
PERMITTIVITY (SEC ⁻¹)	1.2 SEC ⁻¹	ASTM D-4491
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15-0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632

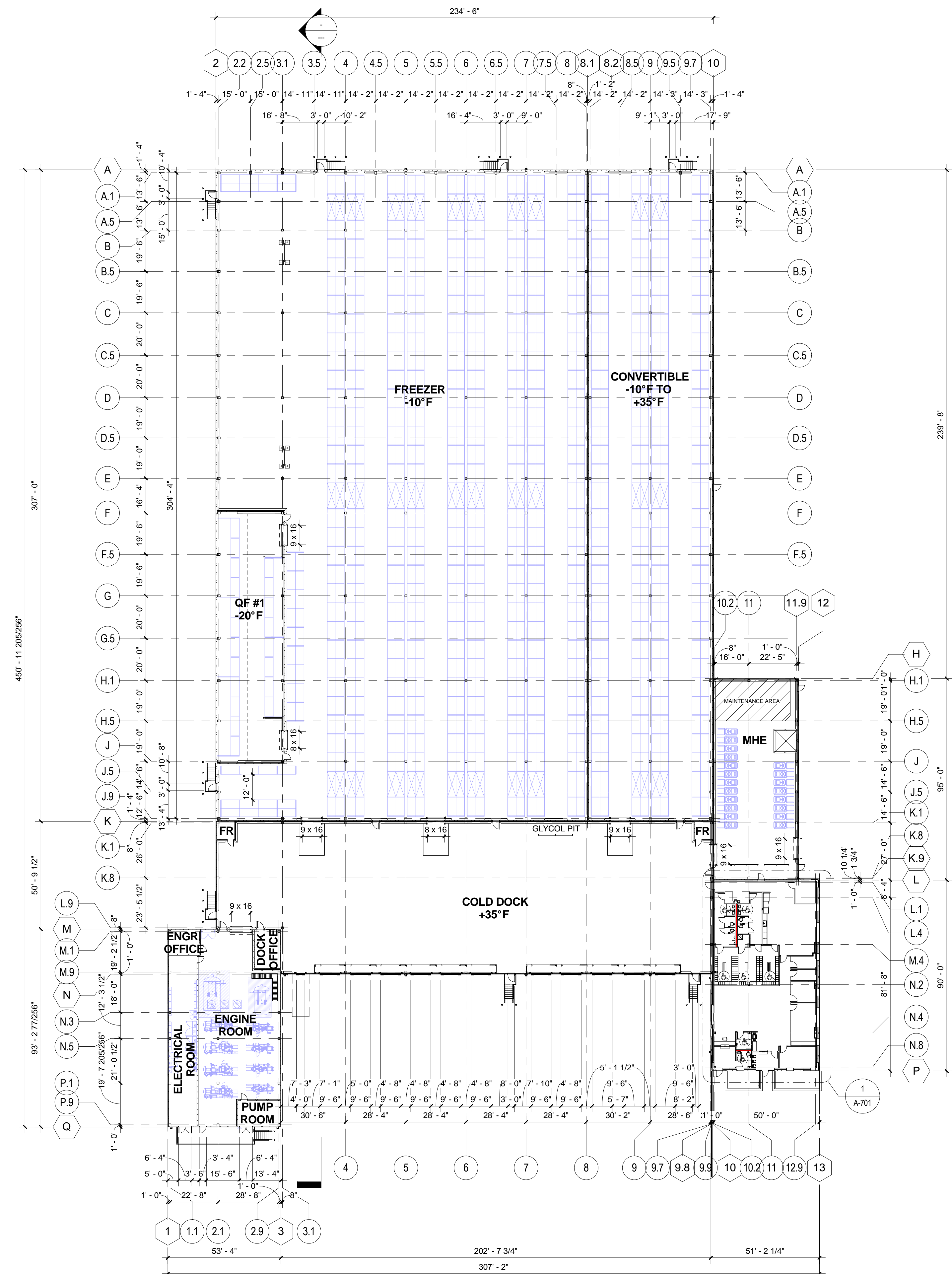
6. REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

FILTER BAG DETAIL
NOT TO SCALE

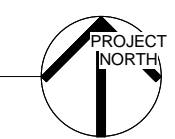


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Revision Record



1 OVERALL FLOOR PLAN
A-100 1" = 30'-0"



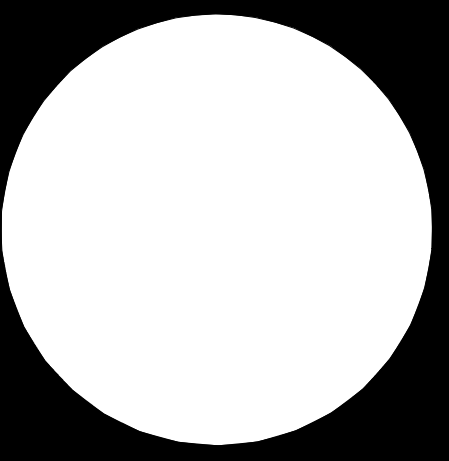
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PWCS

WILMINGTON,
NORTH CAROLINA

Print Record

29 MARCH 2014	50% REVIEW SET
11 APRIL 2014	REVIEW SET
11 JULY 2014	REVIEW SET

Revision Record

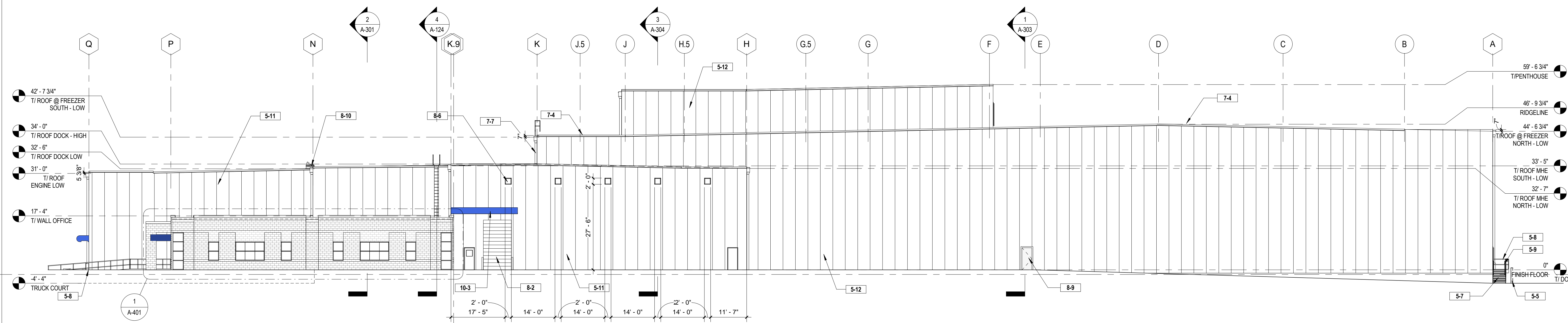
ISSUE DATE
11 JULY 2014

RPA JOB #: 2013222.00

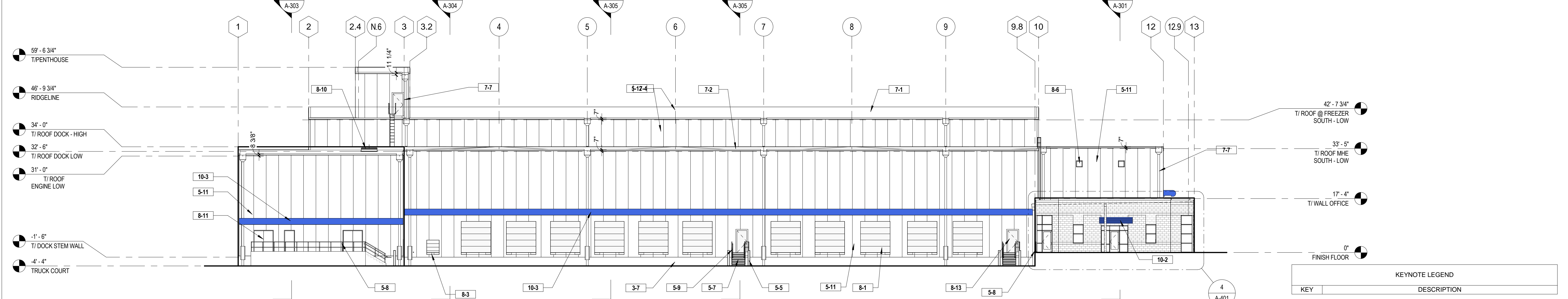
JOB A285

OVERALL FLOOR
PLAN

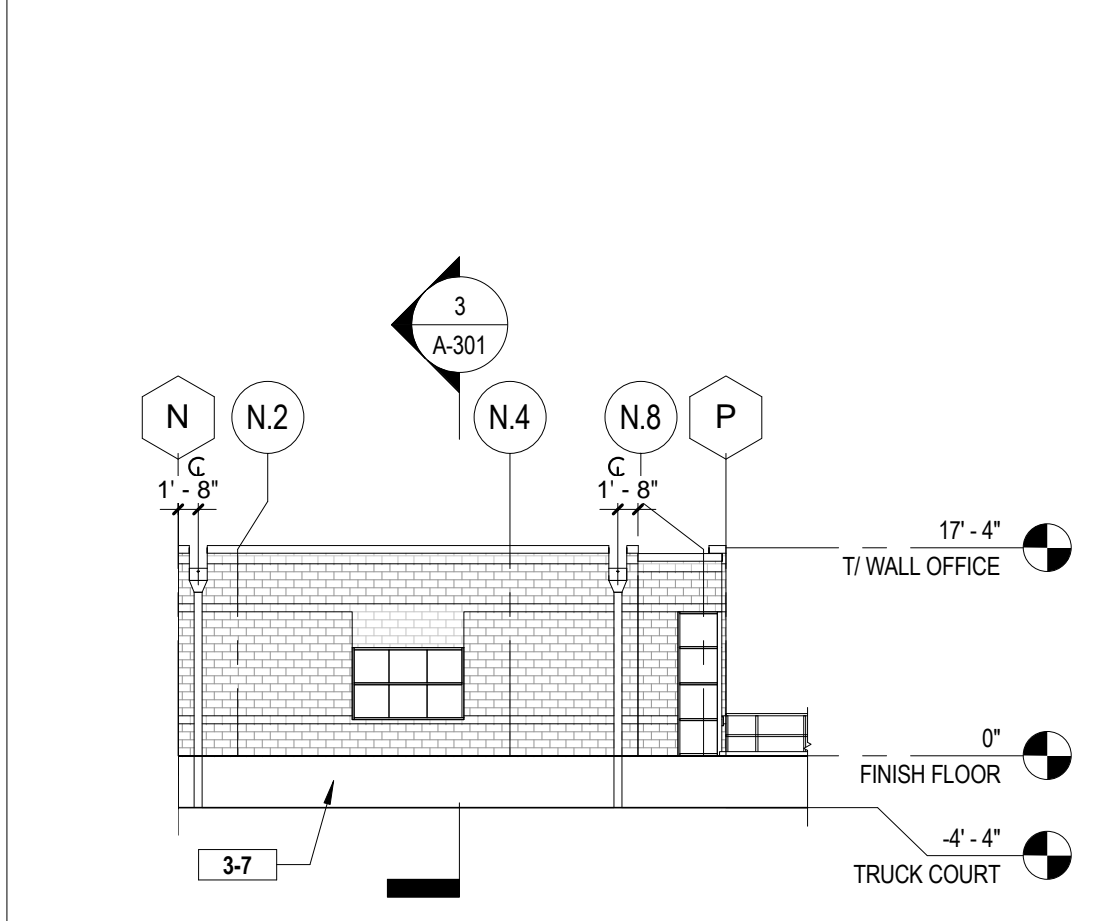
A-100



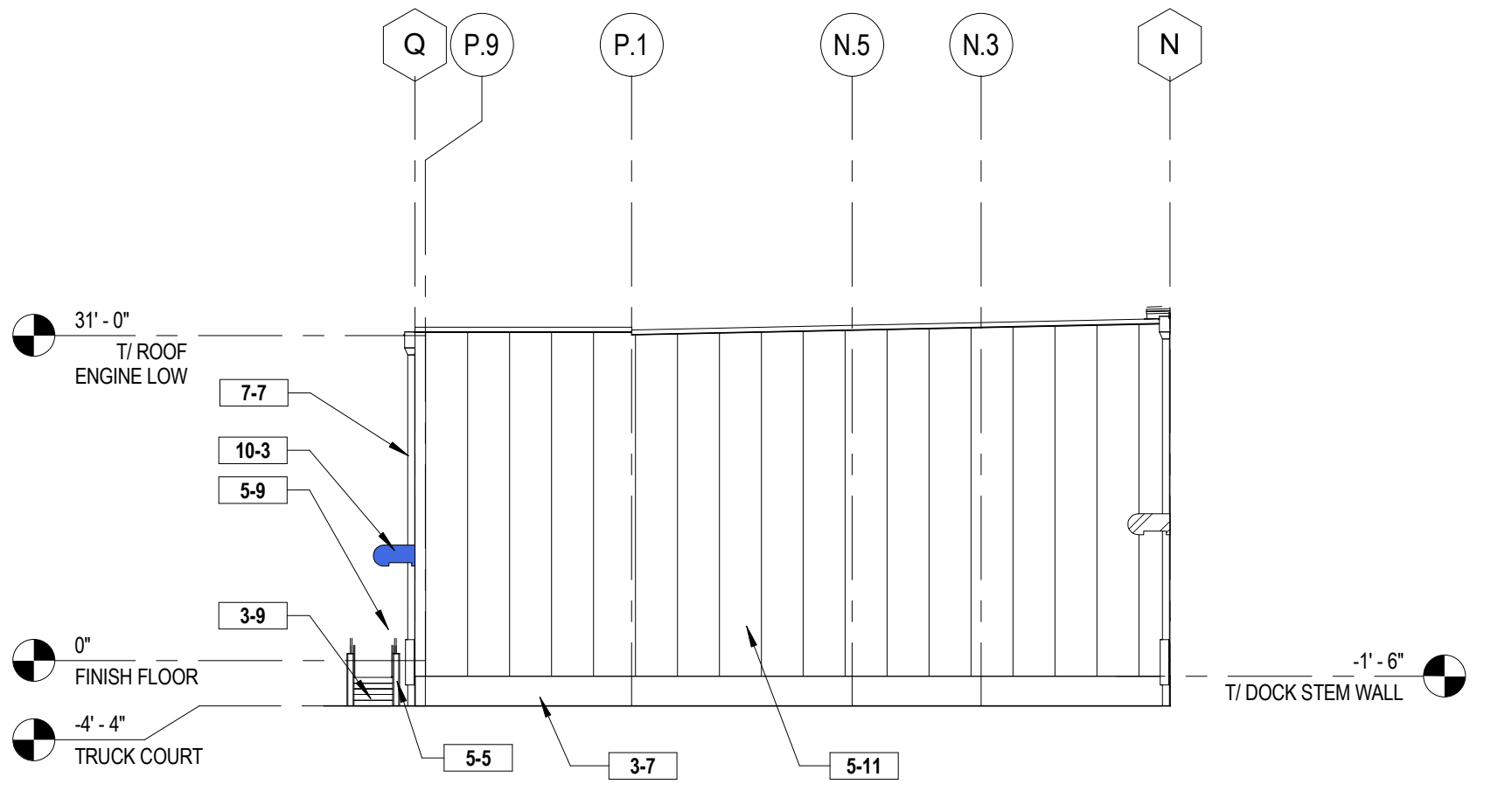
1 EAST ELEVATION
A-201 1/16" = 1'-0"



2 SOUTH ELEVATION
A-201 1/16" = 1'-0"



3 OFFICE ELEVATION - WEST
A-201 1/16" = 1'-0"



4 EAST ELEVATION - ENGINE ROOM
A-201 1/16" = 1'-0"

KEYNOTE LEGEND	
KEY	DESCRIPTION
3-1	7" REINFORCED CONCRETE SLAB, SEE STRUCTURAL, 6 MIL SLIP SHEET, 2 LAYERS OF 3" EXTRUDED POLYSTYRENE, 10 MIL VAPOR BARRIER, AT FREEZER
3-2	6" CONCRETE SLAB, SEE STRUCTURAL, 10 MIL VAPOR BARRIER
3-3	7" CONCRETE SLAB, SEE STRUCTURAL, 10 MIL VAPOR BARRIER
3-4	7" CONCRETE SLAB, SEE STRUCTURAL
3-5	4" CONCRETE SLAB, SEE STRUCTURAL, 10 MIL VAPOR BARRIER
3-6	36" HIGH CONCRETE CURB, SEE DETAILS
3-7	CONCRETE STEM WALL, SEE STRUCTURAL
3-8	CONTINUOUS DOCK PIT, SEE STRUCTURAL
3-9	CONCRETE STAIR AND LANDING
4-1	4" NOMINAL CMU VENEER WALL, MIX OF GROUND AND SPLIT FACE BLOCK, SEE ELEVATIONS
4-2	8" NOMINAL CMU BLOCK WALL
5-1	STEEL COLUMNS, SEE STRUCTURAL DRAWINGS
5-2	STEEL JOIST/GIRDER, SEE STRUCTURAL DRAWINGS
5-3	6" DIAMETER STEEL U-GUARD, SEE DETAILS
5-5	8" DIAMETER GALVANIZED STEEL PIPE BOLLARD, PAINTED SAFETY YELLOW, EXTERIOR
5-6	STEEL DOCK DOOR GUARD RAIL SYSTEM, SEE DETAILS
5-7	GALVANIZED OPEN METAL GRATE STAIR AND LANDING
5-8	1 1/2" O.D. GALVANIZED STEEL PIPE GUARDRAIL
5-9	1 1/4" O.D. GALVANIZED STEEL PIPE HANDRAIL
5-11	4" INSULATED METAL PANEL WALL
5-12	6" INSULATED METAL PANEL WALL
5-13	METAL SHIPS LADDER
5-14	BASE PLATE FOR 6" DIAMETER STEEL U-GUARD, SEE DETAILS
5-15	ARMOR JOINT AT DOOR THRESHOLD, SEE DETAILS
7-1	60 mil SINGLE PLY MECH. ATTACHED TPO ROOFING ON 2 LAYERS OF 3.9" INSULATION (7.8" TOTAL, R46), OVER 1 1/2" METAL DECK
7-2	60 mil SINGLE PLY MECH. ATTACHED TPO ROOFING ON 2 LAYERS OF 2.7" INSULATION (5.4" TOTAL, R31.2), OVER 1 1/2" METAL DECK
7-3	60 mil SINGLE PLY MECH. ATTACHED TPO ROOFING ON 3" INSULATION (R17.4) OVER 1 1/2" METAL DECK
7-4	PREFINISHED METAL GRAVEL STOP
7-6	PREFINISHED METAL COPING
7-7	PREFINISHED METAL SURFACE MOUNTED SCUPPER AND DOWNSPOUT, SEE SCHEDULE FOR SIZE, TYP.
7-8	PREFINISHED METAL SURFACE MOUNTED SCUPPER AND DOWNSPOUT, SEE SCHEDULE FOR SIZE. PROVIDE SPLASH PADS ON ROOF
7-9	DOCK CANOPY
8-1	9' - 6" x 11' DOCK DOOR, SEE DOOR SCHEDULE
8-2	OVERHEAD DOOR, SEE DOOR SCHEDULE
8-3	4x4' COMPACTOR DOOR, SEE DOOR SCHEDULE
8-4	4x4' TRIPLE PANE INSULATED WINDOW SYSTEM
8-5	4x4' WIRE GLASS WINDOW SYSTEM AT ENGINEER'S OFFICE
8-6	STOREFRONT WINDOW SYSTEM, IMPACT RESISTANT GLAZING
8-7	HOLLOW METAL PERSONNEL DOOR, SEE DOOR SCHEDULE
8-8	HIGH-SPEED FORKLIFT DOOR, SEE DOOR SCHEDULE
8-9	INFITTING FREEZER DOOR, SEE DOOR SCHEDULE
8-10	3x5' ROOF HATCH
8-11	PAIR OF HOLLOW METAL DOORS, SEE DOOR SCHEDULE
8-13	INFITTING COOLER DOOR, SEE DOOR SCHEDULE
10-2	PREFINISHED METAL CANOPY FASCIA
10-3	3'-11" DEEP BULLNOSE PREFINISHED METAL DOCK CANOPY, PAINTED ROYAL BLUE
15-1	HOSE BIBB

PAINT LEGEND				
TAG	KEY	COLOR	MANUF.	LOCATION
P-1	[White Box]	TBD	TBD	FIELD
P-2	[Grey Box]	TBD	TBD	ACCENT
P-3	[Dark Grey Box]	TBD	TBD	ACCENT

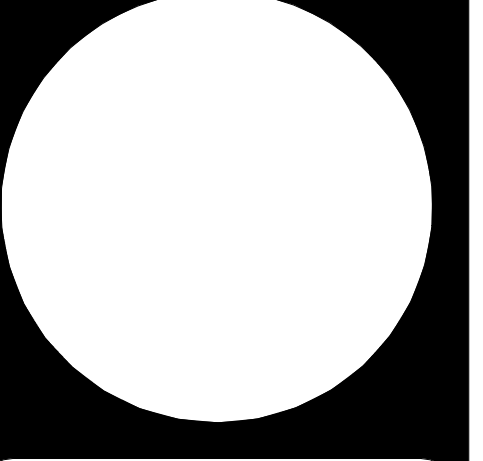


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WILMINGTON,
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Print Record

DATE	BY	REVISION
28 MARCH 2014	SPK	REVIEW SET
11 APRIL 2014	SPK	REVIEW SET
23 MAY 2014	OFFER	REVISIONS
11 JULY 2014	SPK	REVIEW SET

Revision Record

NO.	DATE	DESCRIPTION

ISSUE DATE
11 JULY 2014

RPA JOB #: 2013222.00
JOB A285

ELEVATIONS

A-201

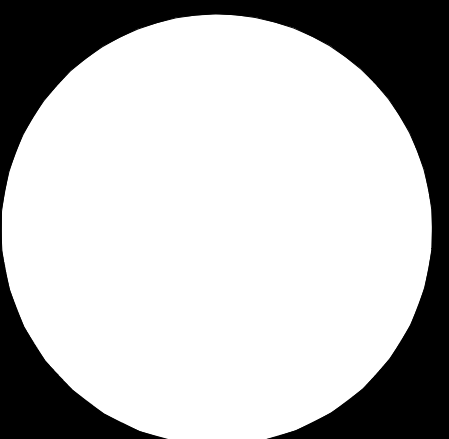


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28 MARCH 2014	S&P REVIEW SET
11 APRIL 2014	REVIEW SET
21 MAY 2014	OFFICE MODIFICATIONS
11 JULY 2014	REVIEW SET

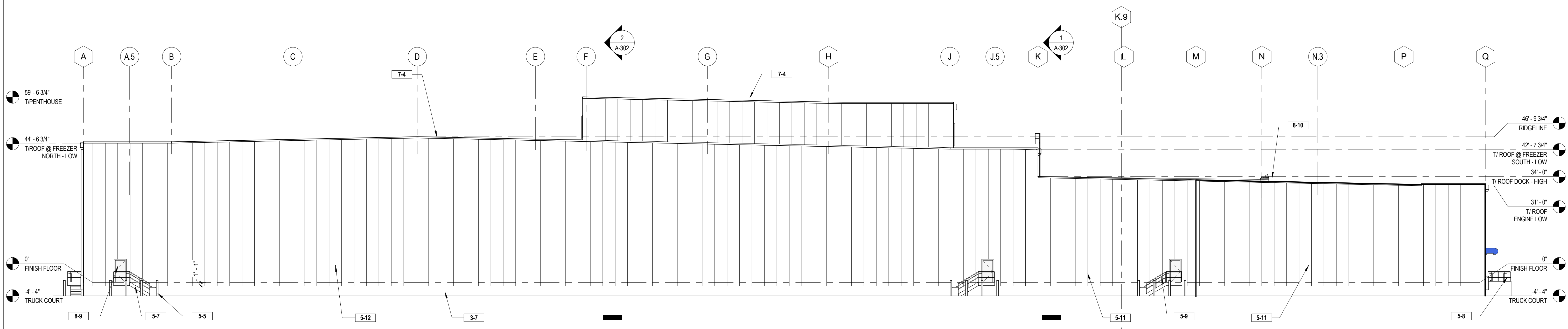
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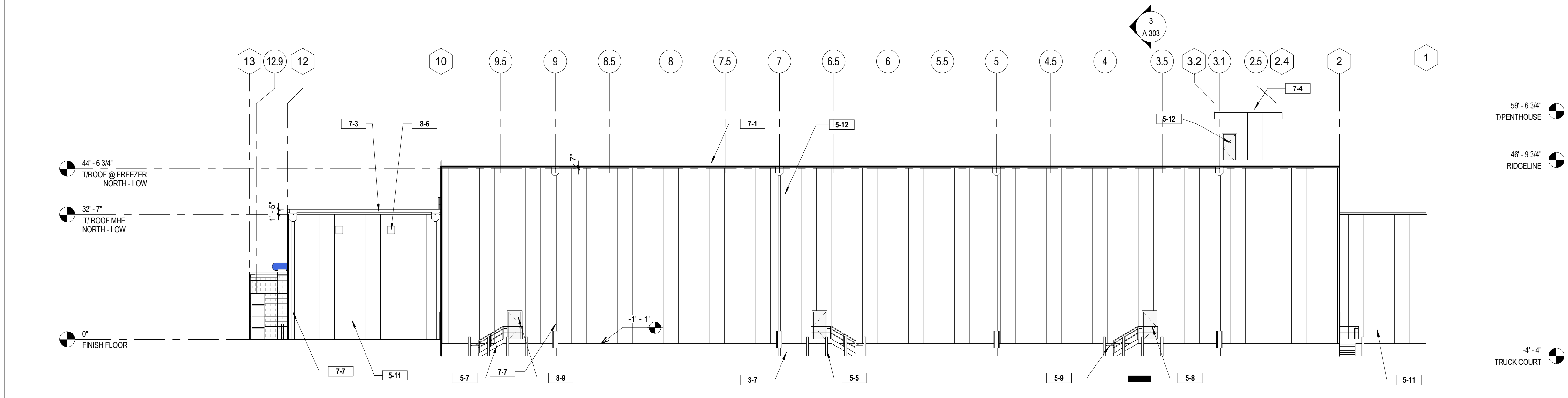
RPA JOB #: 2013222.00
JOB A285

ELEVATIONS

A-202



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