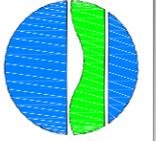
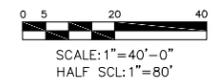


NOTES:  
SEE SHEET PK7 FOR LEGEND



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EXISTING		PROPOSED	
[Symbol]	INDEX CONTOUR	[Symbol]	INDEX CONTOUR
[Symbol]	INTERMEDIATE CONTOUR	[Symbol]	INTERMEDIATE CONTOUR
[Symbol]	TREELINE	[Symbol]	TREELINE
[Symbol]	WETL/STREAM SETBACK LINE	[Symbol]	WETL/STREAM SETBACK LINE
[Symbol]	SCS SOILS BOUNDARY	[Symbol]	SCS SOILS BOUNDARY
[Symbol]	SUBCATCHMENT BOUNDARY	[Symbol]	SUBCATCHMENT BOUNDARY
[Symbol]	FLOWLINE	[Symbol]	FLOWLINE
[Symbol]	FLOWLINE - LABELED	[Symbol]	FLOWLINE - LABELED
[Symbol]	SW CONVEYANCE	[Symbol]	SW CONVEYANCE
[Symbol]	DIVERSION SWALE	[Symbol]	DIVERSION SWALE
[Symbol]	WATERBAR	[Symbol]	WATERBAR
[Symbol]	LEVEL SPREADER	[Symbol]	LEVEL SPREADER
[Symbol]	SILT FENCE	[Symbol]	SILT FENCE
[Symbol]	LIMITS OF DISTURBANCE	[Symbol]	LIMITS OF DISTURBANCE
[Symbol]	TC PATH LINES	[Symbol]	TC PATH LINES
[Symbol]	SHEET FLOW	[Symbol]	SHEET FLOW
[Symbol]	SC FLOW	[Symbol]	SC FLOW
[Symbol]	OC FLOW	[Symbol]	OC FLOW
[Symbol]	DIAM - TYPE	[Symbol]	DIAM - TYPE
[Symbol]	LEN - PITCH	[Symbol]	LEN - PITCH
[Symbol]	SW PIPE - 12" SICPP UON	[Symbol]	SW PIPE - 12" SICPP UON
[Symbol]	CATCH BASIN	[Symbol]	CATCH BASIN
[Symbol]	DRAINAGE MH	[Symbol]	DRAINAGE MH
[Symbol]	OUTLET CONTROL STRUCTURE	[Symbol]	OUTLET CONTROL STRUCTURE
[Symbol]	FLAIR/CHAMF END SECTION	[Symbol]	FLAIR/CHAMF END SECTION
[Symbol]	HEADWALL/TAIWALL	[Symbol]	HEADWALL/TAIWALL

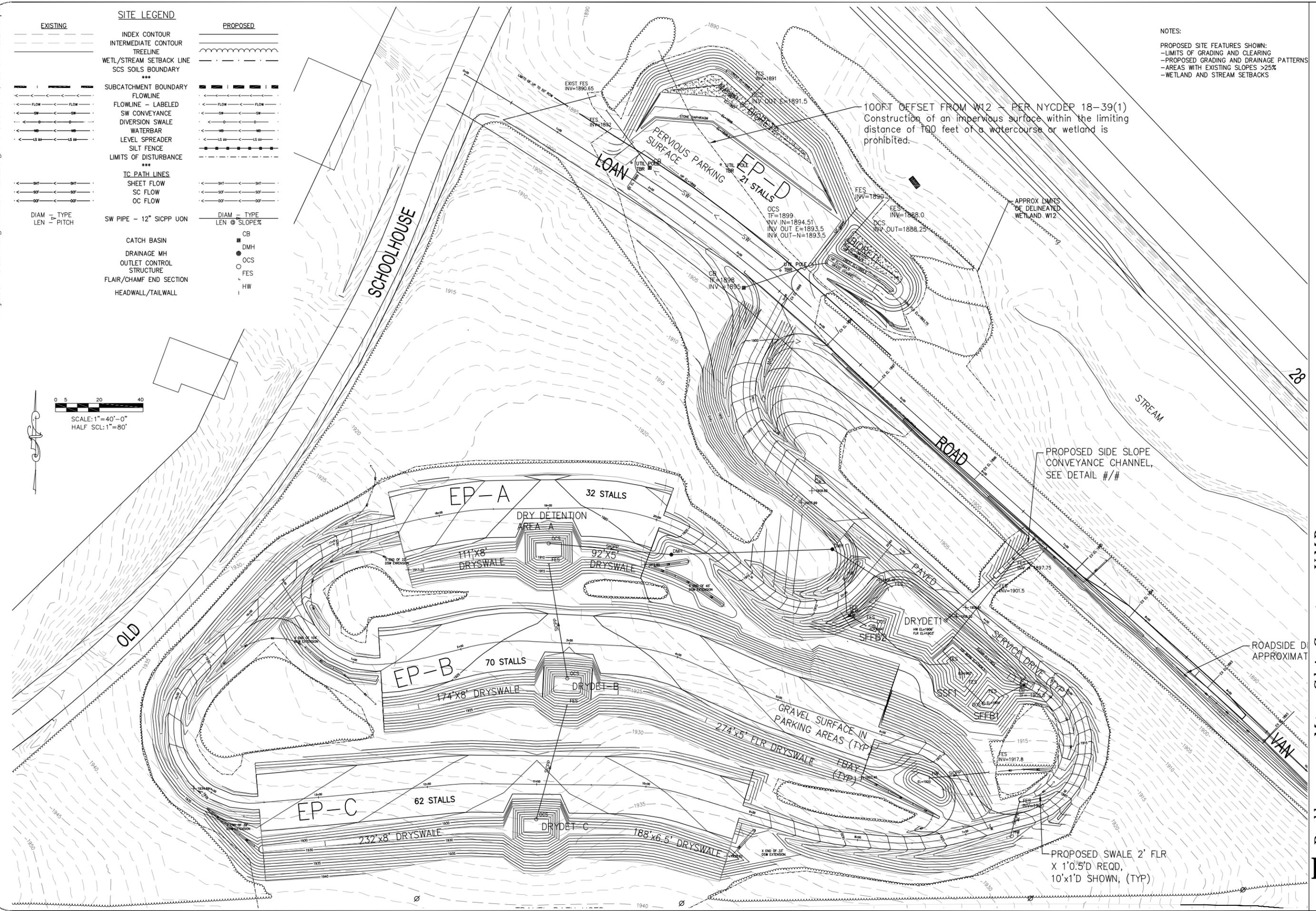


NOTES:  
 PROPOSED SITE FEATURES SHOWN:  
 -LIMITS OF GRADING AND CLEARING  
 -PROPOSED GRADING AND DRAINAGE PATTERNS  
 -AREAS WITH EXISTING SLOPES >25%  
 -WETLAND AND STREAM SETBACKS

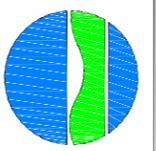
100FT OFFSET FROM W12 - PER NYCDEP 18-39(1)  
 Construction of an impervious surface within the limiting distance of 100 feet of a watercourse or wetland is prohibited.

PROPOSED SIDE SLOPE CONVEYANCE CHANNEL, SEE DETAIL ##/##

PROPOSED SWALE 2' FLR X 1'0.5'D REQD, 10'x1'D SHOWN, (TYP)



NYS Department of Environmental Conservation  
 Bureau of Design & Construction



Belleayre Mtn. Ski Center UMP  
 Proposed East Parking -  
 Grading & Drainage  
 JANUARY 2011

PK7

EXISTING	SITE LEGEND	PROPOSED
---	INDEX CONTOUR	---
---	INTERMEDIATE CONTOUR	---
---	TREELINE	---
---	WET/STREAM SETBACK LINE	---
---	SCS SOILS BOUNDARY	---
---	SUBCATCHMENT BOUNDARY	---
---	FLOWLINE	---
---	FLOWLINE - LABELED	---
---	SW CONVEYANCE	---
---	DIVERSION SWALE	---
---	WATERBAR	---
---	LEVEL SPREADER	---
---	SILT FENCE	---
---	LIMITS OF DISTURBANCE	---
---	TC PATH LINES	---
---	SHEET FLOW	---
---	SC FLOW	---
---	OC FLOW	---
---	SW PIPE - 12" SLOPP UON	---
---	CATCH BASIN	---
---	DRAINAGE WH	---
---	OUTLET CONTROL	---
---	STRUCTURE	---
---	FLAIR/CHAMF END SECTION	---
---	HEADWALL/TAILWALL	---

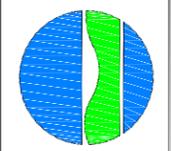
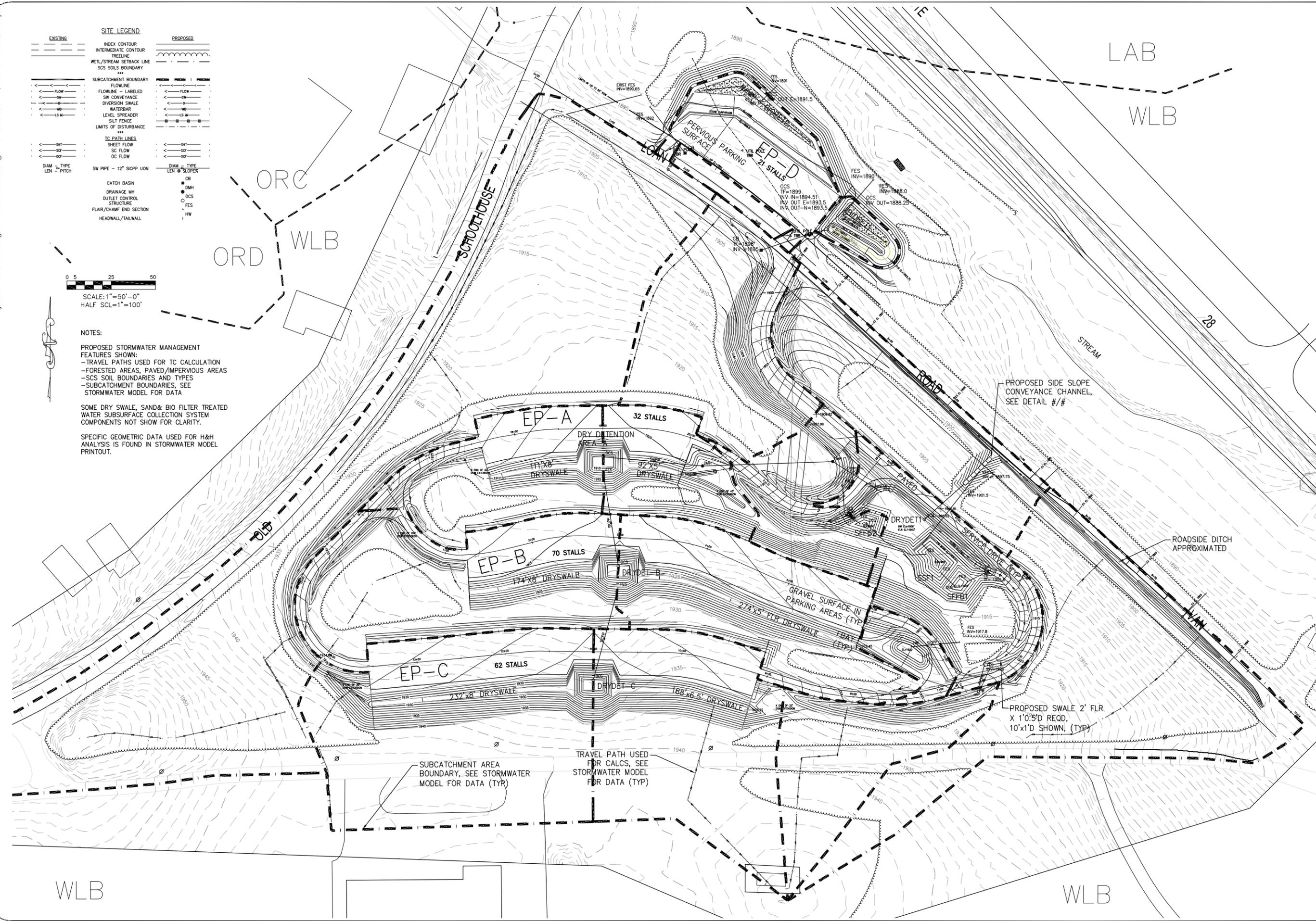


NOTES:

PROPOSED STORMWATER MANAGEMENT FEATURES SHOWN:  
 - TRAVEL PATHS USED FOR TC CALCULATION  
 - FORESTED AREAS, PAVED/IMPERVIOUS AREAS  
 - SCS SOIL BOUNDARIES AND TYPES  
 - SUBCATCHMENT BOUNDARIES, SEE STORMWATER MODEL FOR DATA

SOME DRY SWALE, SAND & BIO FILTER TREATED WATER SUBSURFACE COLLECTION SYSTEM COMPONENTS NOT SHOWN FOR CLARITY.

SPECIFIC GEOMETRIC DATA USED FOR H&H ANALYSIS IS FOUND IN STORMWATER MODEL PRINTOUT.



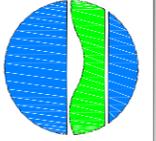


NOTES:  
SEE SHEET PK7 FOR LEGEND



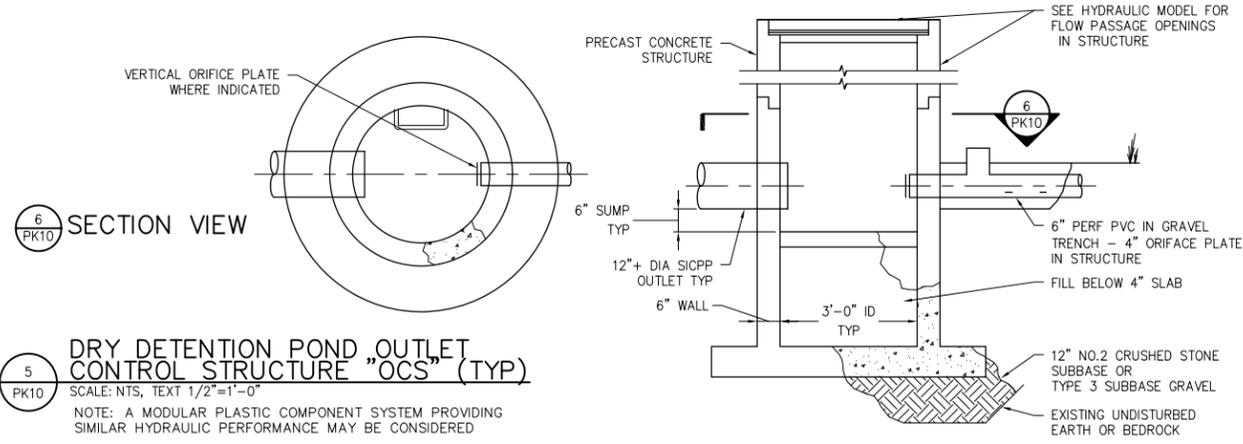
Belleayre Mtn. Ski Center UMP  
 Proposed East Parking - Pre to Post  
 Development Area

**PK9**

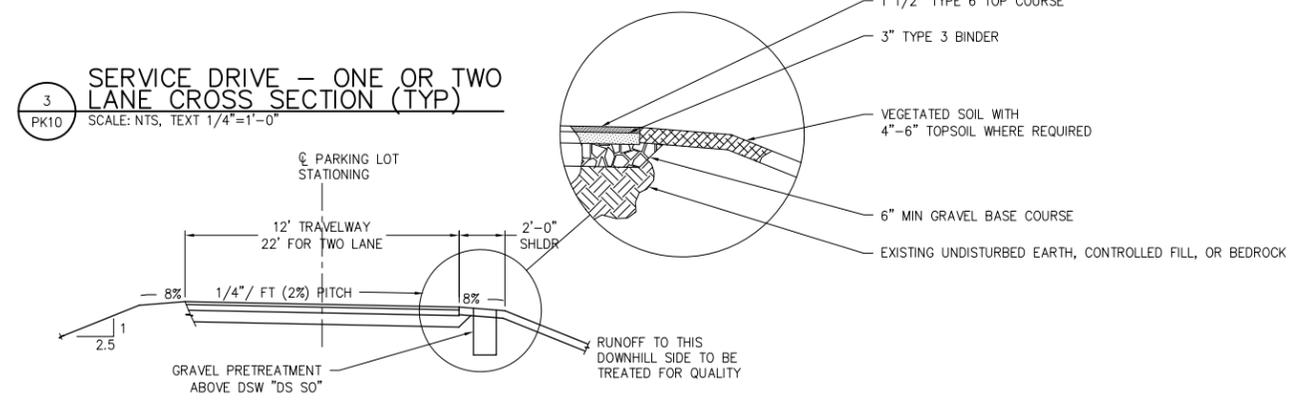


NYS Department of Environmental Conservation  
 Bureau of Design & Construction

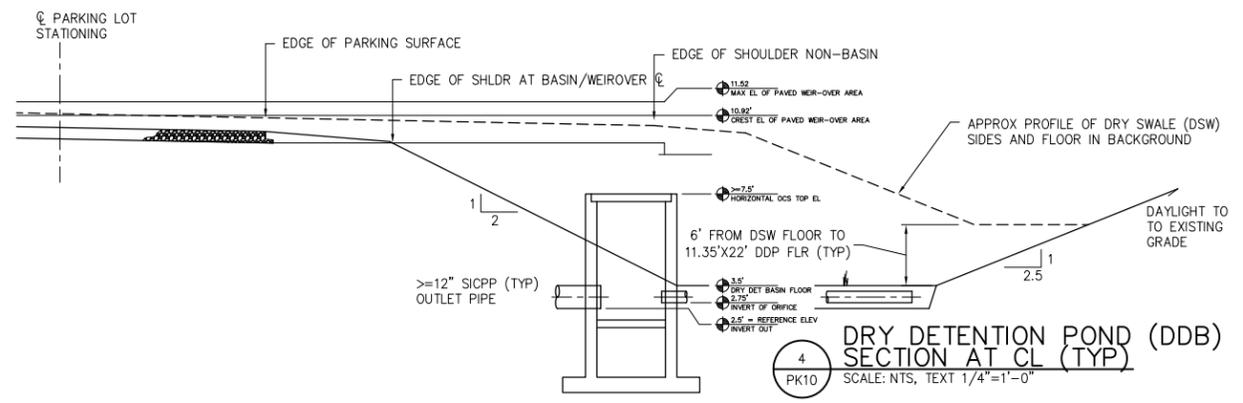
JANUARY 2011



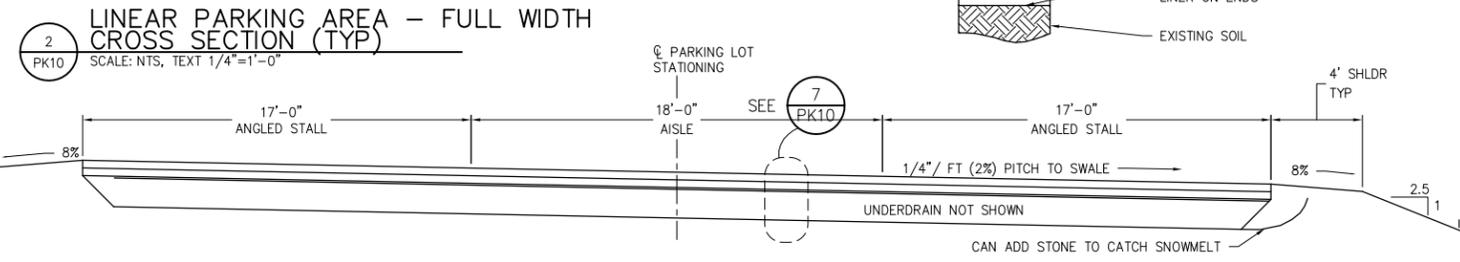
5 DRY DETENTION POND OUTLET CONTROL STRUCTURE "OCS" (TYP)  
SCALE: NTS, TEXT 1/2"=1'-0"  
NOTE: A MODULAR PLASTIC COMPONENT SYSTEM PROVIDING SIMILAR HYDRAULIC PERFORMANCE MAY BE CONSIDERED



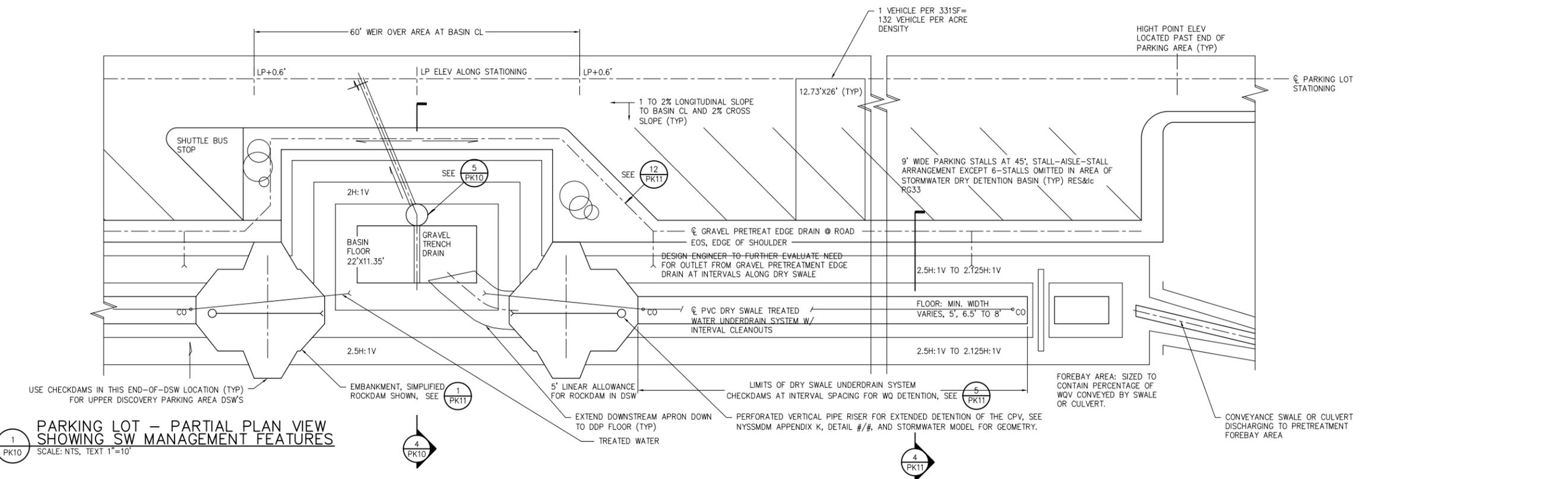
7 POROUS ASPHALT PVMT SYSTEM CROSS SECTION  
SCALE: NTS, TEXT 1/2"=1'-0"  
DESIGNED AS AN INFILTRATION PRACTICE, NO FILTER SOIL LAYER.



4 DRY DETENTION POND (DDP) SECTION AT CL (TYP)  
SCALE: NTS, TEXT 1/4"=1'-0"

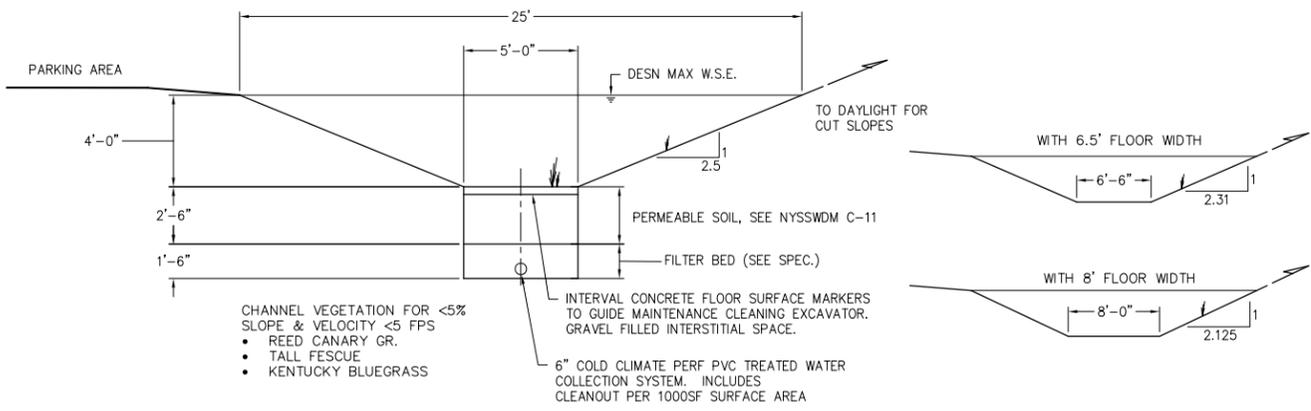


2 LINEAR PARKING AREA - FULL WIDTH CROSS SECTION (TYP)  
SCALE: NTS, TEXT 1/4"=1'-0"

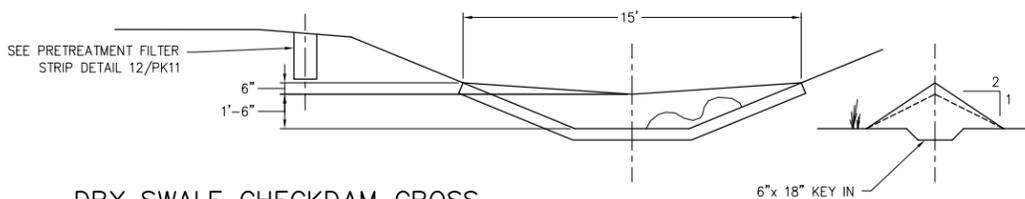


1 PARKING LOT - PARTIAL PLAN VIEW SHOWING SW MANAGEMENT FEATURES  
SCALE: NTS, TEXT 1"=10'

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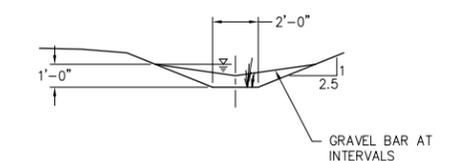


**4 DRY SWALE SYSTEM DETAIL  
STORMWATER QUALITY/QUANTITY TREATMENT (TYP)**  
SCALE: NTS, TEXT 1/4" = 1'-0"

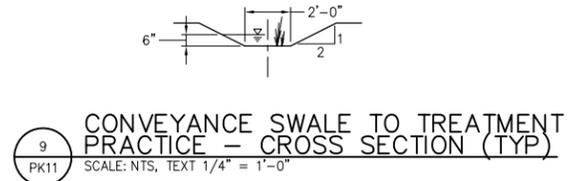


**5 DRY SWALE CHECKDAM CROSS  
SECTION DETAIL (TYP)**  
SCALE: NTS, TEXT 1/4" = 1'-0"

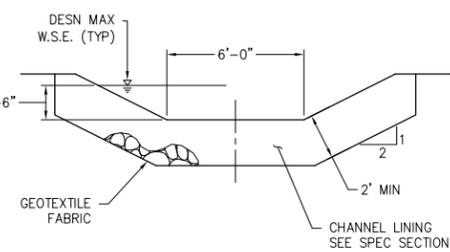
NOTE: AN ALTERNATIVE APPROACH COULD USE STACKED AND STAKED LOCALLY HARVESTED TIMBERS TO SERVE AS CHECK DAMS.



**6 SERVICE DRIVE DRAINAGE SWALE  
CROSS SECTION (TYP)**  
SCALE: NTS, TEXT 1/4" = 1'-0"



**9 CONVEYANCE SWALE TO TREATMENT  
PRACTICE - CROSS SECTION (TYP)**  
SCALE: NTS, TEXT 1/4" = 1'-0"



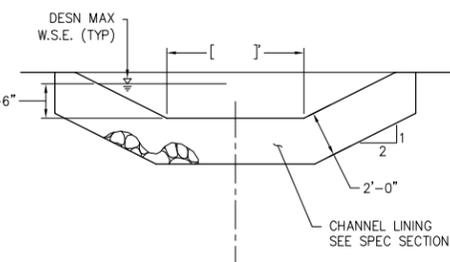
**10 IMPROVED EXISTING CHANNEL AT  
UD BUS PARKING LOT (TYP)**  
SCALE: NTS, TEXT 1/4" = 1'-0"



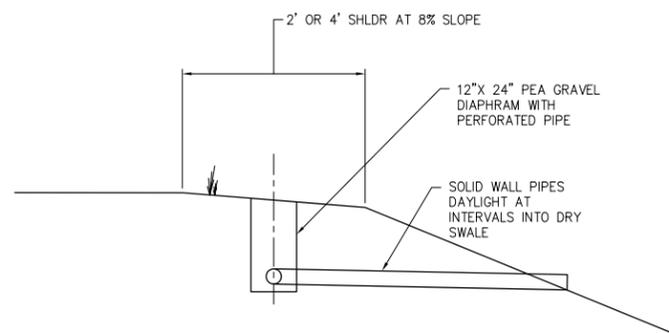
**7 STORMWATER SIDE-SLOPE CONVEYANCE  
CHANNEL CROSS SECTION (TYP)**  
SCALE: NTS, TEXT 1/4" = 1'-0"



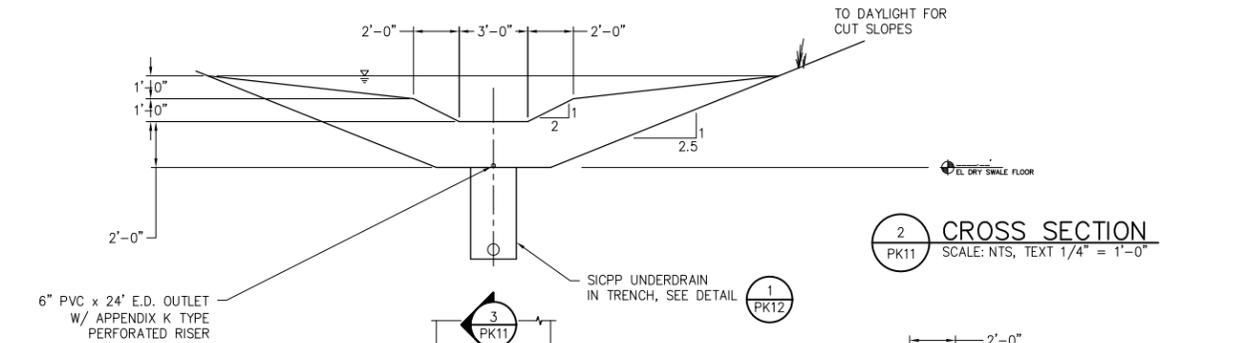
**11 UPLAND DIVERSION SWALE  
CROSS SECTION (TYP)**  
SCALE: NTS, TEXT 1/4" = 1'-0"



**8 OUTFALL FOR DRY DETENTION  
POND AT UD BUS LOT**  
SCALE: NTS, TEXT 1/4" = 1'-0"



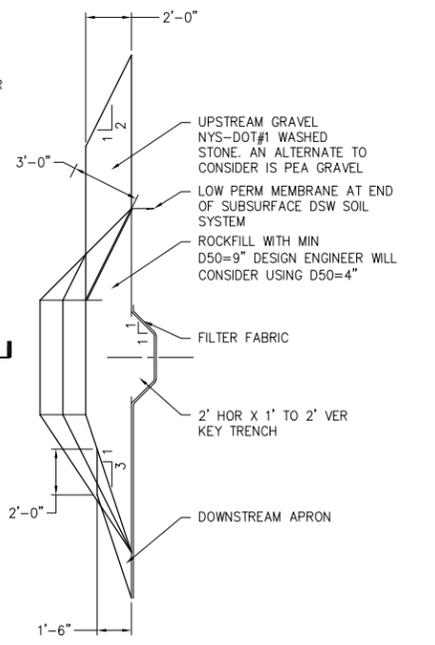
**12 PRETREATMENT FILTER  
STRIP DETAIL**  
SCALE: NTS, TEXT 1/2" = 1'-0"



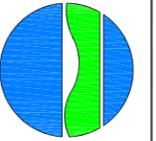
**1 ROCKDAM DETAIL  
STORMWATER QUAL/QTY TREATMENT (TYP)**  
SCALE: NTS, TEXT 1/4" = 1'-0"



**2 CROSS SECTION**  
SCALE: NTS, TEXT 1/4" = 1'-0"



**3 SECTION**  
SCALE: NTS, TEXT 1/4" = 1'-0"



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**NOTES:**

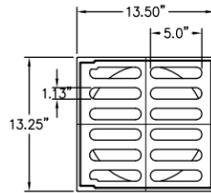
General  
PVC surface drainage inlets shall include the inline drains, drain basins, and catch basins as indicated on the contract drawings and referenced within the contract specifications. The cast iron grates for each of these fittings is to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast, USA, Inc. or prior approved equal.

Materials  
The inline drains, drain basins and catch basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the piping system specified. This joint tightness shall conform to ASTM D3212.

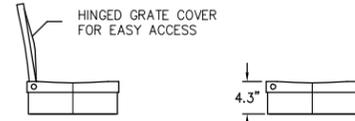
Surface drainage products shall meet the mechanical property requirements for fabricated fittings as described in ASTM F794, F979 and F1336.

The grates furnished for all surface drainage inlets shall be cast iron and shall be made specifically for each fitting. Grates shall be capable of supporting H-20 wheel loading. Metal used in the manufacture of the castings shall conform to ASTM A-48-83 Class 30B for gray iron. The castings shall be furnished with a black point.

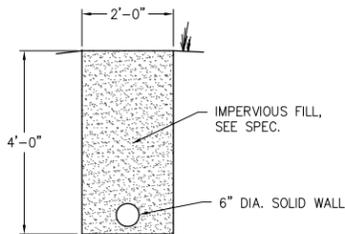
Installation  
The specified PVC surface drainage inlets shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or 2 material as defined in ASTM D2321. The surface drainage inlets shall be bedded and backfilled uniformly in accordance with ASTM D2321.



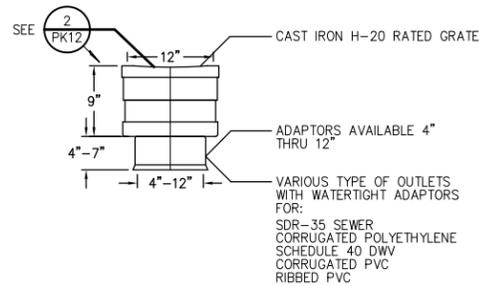
STANDARD (H-20) RATED  
DRAINAREA = 62.7 SQ. INCH



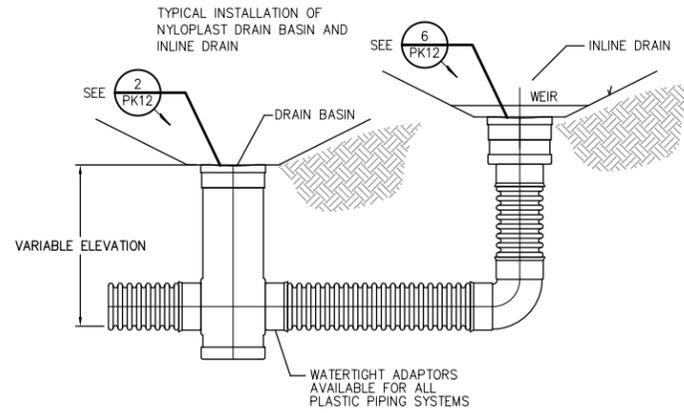
2 12" CAST IRON GRATE  
SCALE: NTS, TEXT 1/4"=1'-0"



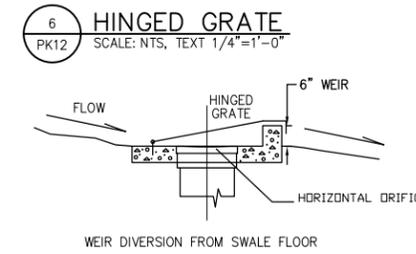
1 DSW UNDERDRAIN  
TRENCH AT DAM DETAIL  
SCALE: NTS, TEXT 1/2"=1'-0"



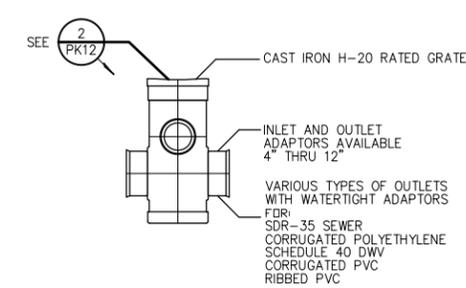
3 12" IN-LINE CAST IRON GRATE  
SCALE: NTS, TEXT 1/4"=1'-0"



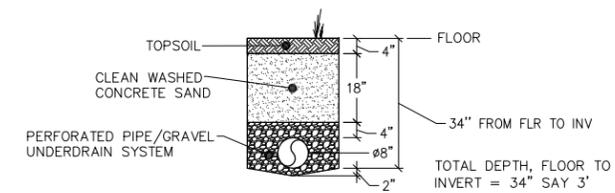
4 TYPICAL INSTALLATION LAYOUT  
SCALE: NTS, TEXT 1/4"=1'-0"



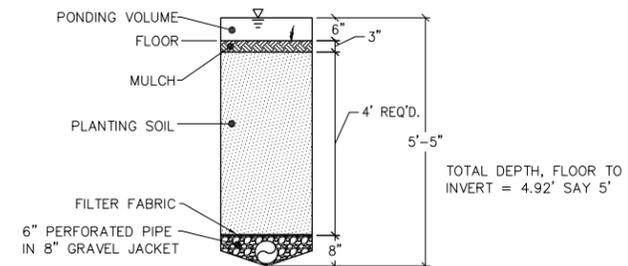
6 HINGED GRATE  
SCALE: NTS, TEXT 1/4"=1'-0"



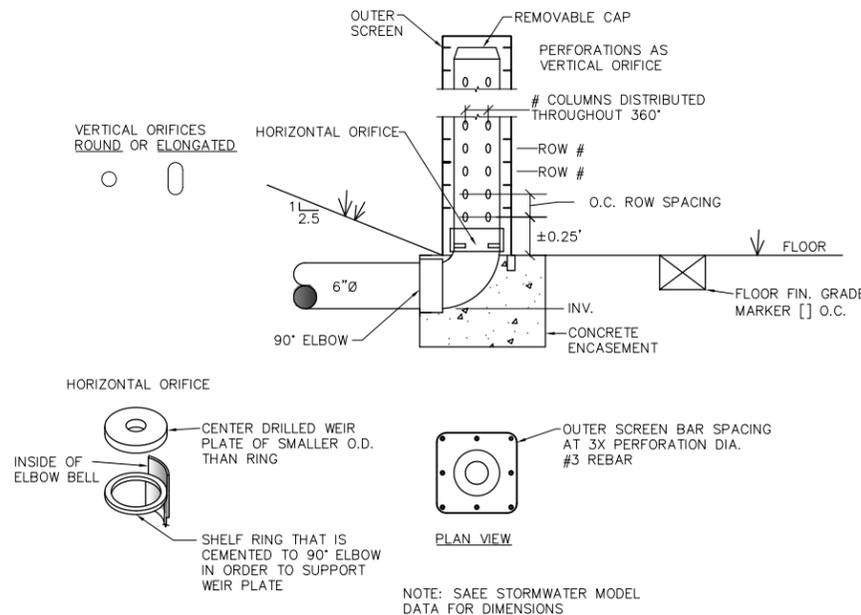
5 12" DRAINAGE BASIN (TYP)  
SCALE: NTS, TEXT 1/4"=1'-0"



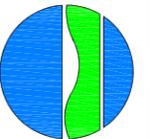
9 SURFACE SAND FILTER MEDIA SECTION W/  
COLD WEATHER PROVISIONS  
SCALE: NTS, TEXT 1/2"=1'-0"



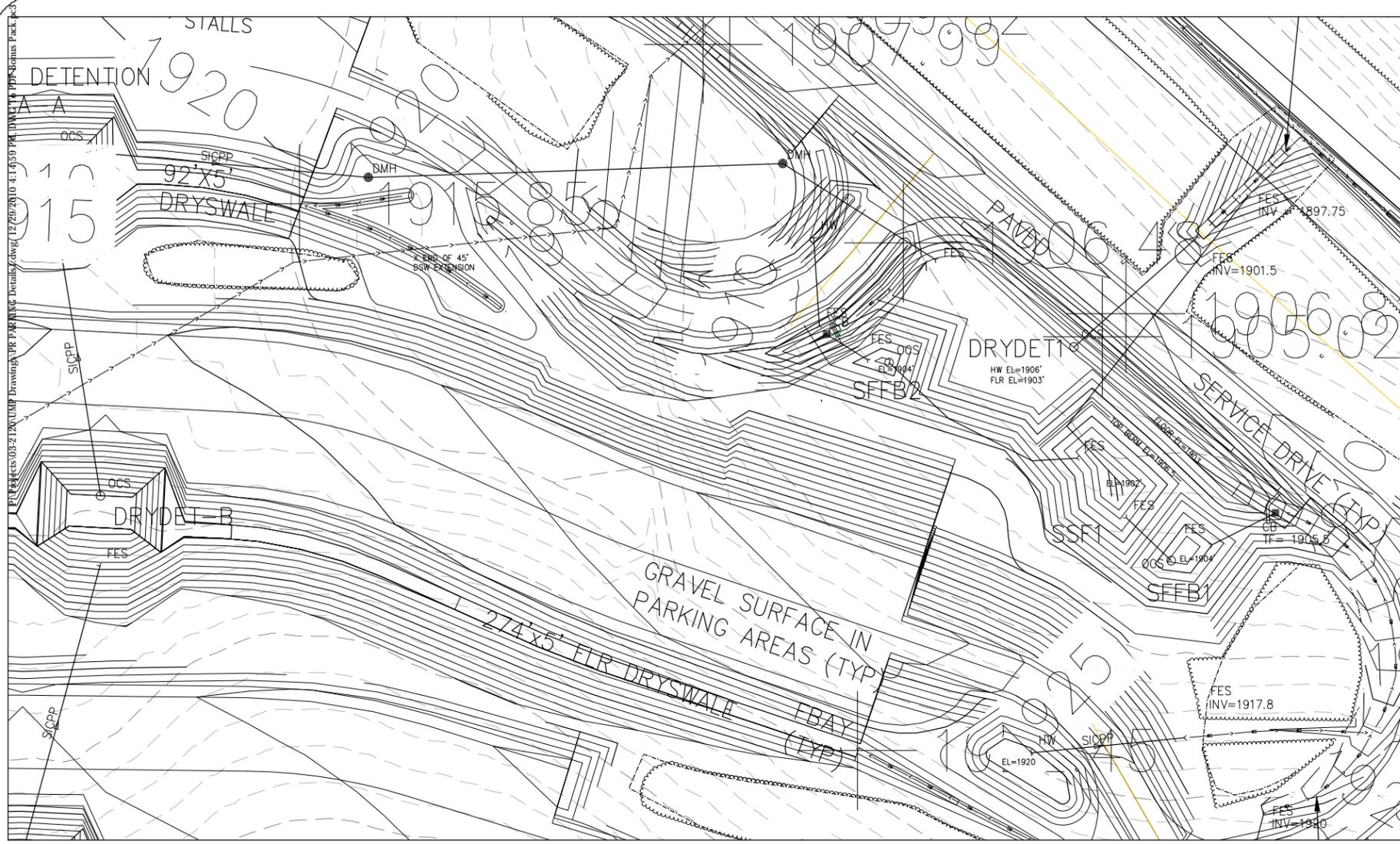
10 BIORETENTION FILTER MEDIA SECTION W/  
COLD WEATHER PROVISIONS  
SCALE: 1/2"=1'-0"



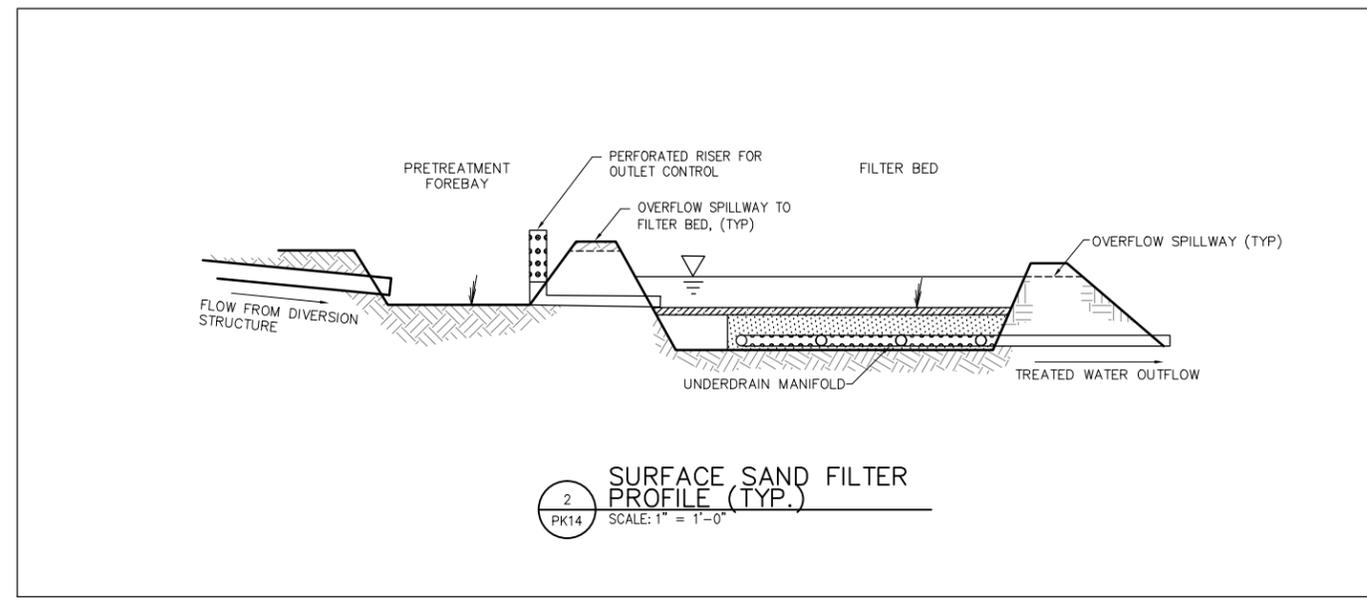
8 PERFORATED RISER FOR  
OUTLET FLOW CONTROL  
SCALE: 1" = 1'-0"



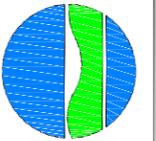




1 EAST PARKING SURFACE SAND FILTER AREA ENLARGEMENT  
 PK14 SCALE: 1"=300'-0"



2 SURFACE SAND FILTER PROFILE (TYP.)  
 PK14 SCALE: 1"=1'-0"



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CONVEYANCE CHANNEL

CPSYSTEM INV= 2130

POTENTIAL FOUNDATION AREA  
PREVIOUS WHISPELL HOUSE  
MARKED 12-16-09 BY J. DI

PROPOSED SSF  
TREATMENT AREA

DRYDET-F  
HW EL=2156'  
FLR EL=2154'

OCS  
TF=2154.5  
INV IN=2144.8  
INV OUT=2144.7  
INV OUT (N)=2145.5

FES INV= 2145

FILTER BED  
HW EL=2139'  
FLR EL=2135'

OCS  
FLOOR=2135  
INV OUT=2131

SURFACE SAND FILTER  
PRETREATMENT  
HW EL=2139'  
FLR EL=2136'

H WALL TW=2149  
INV=2146

SICPP

OCS  
TF=2154  
INV IN (S)=2149.25  
INV OUT (N)=2146.4  
HW EL=2155'  
FLR EL=2150'

FES INV= 2162.55

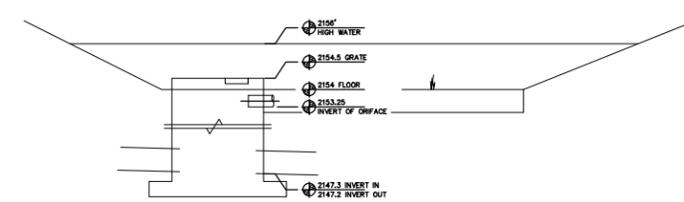
DMH  
TF=2148  
INV IN (S)=2144.4  
INV IN (W)=2140.6  
INV OUT (E)=2140.5

CB  
TF=2151.00  
INV OUT=TF-4'

2180

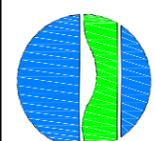
DRYDET-F

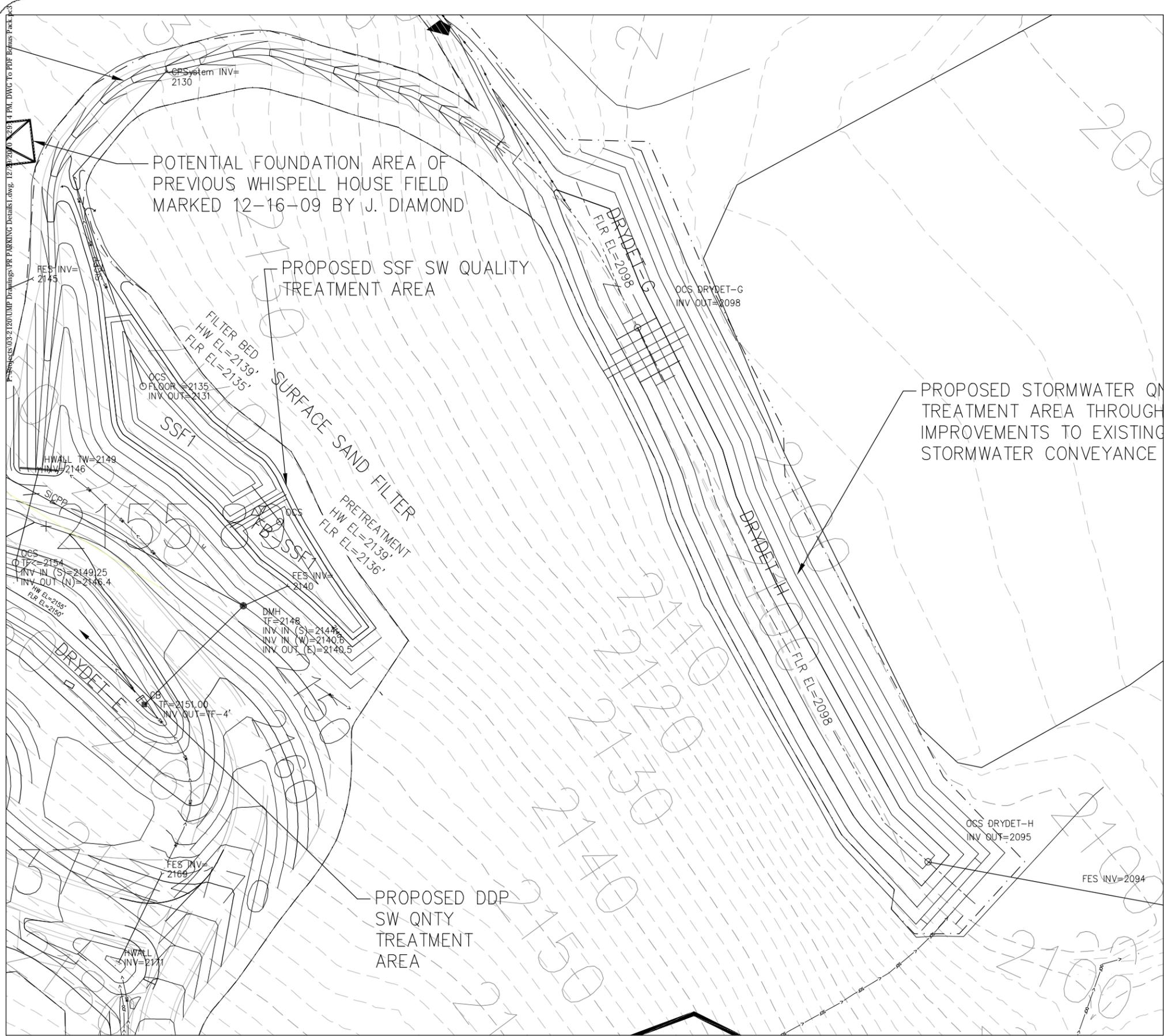
2150



2 PRECAST CONCRETE DRAINAGE STRUCTURE (TYP)  
PK15 SCALE: NTS, TEXT 1/4"=1'-0"

1 UPPER DISCOVERY PARKING SURFACE SAND FILTER AREA ENLARGEMENT  
PK15 SCALE: 1"=200'-0"





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1  
PK16

UPPER DISCOVERY PARKING  
LOWER DDP  
SCALE: 1"=300'-0"

