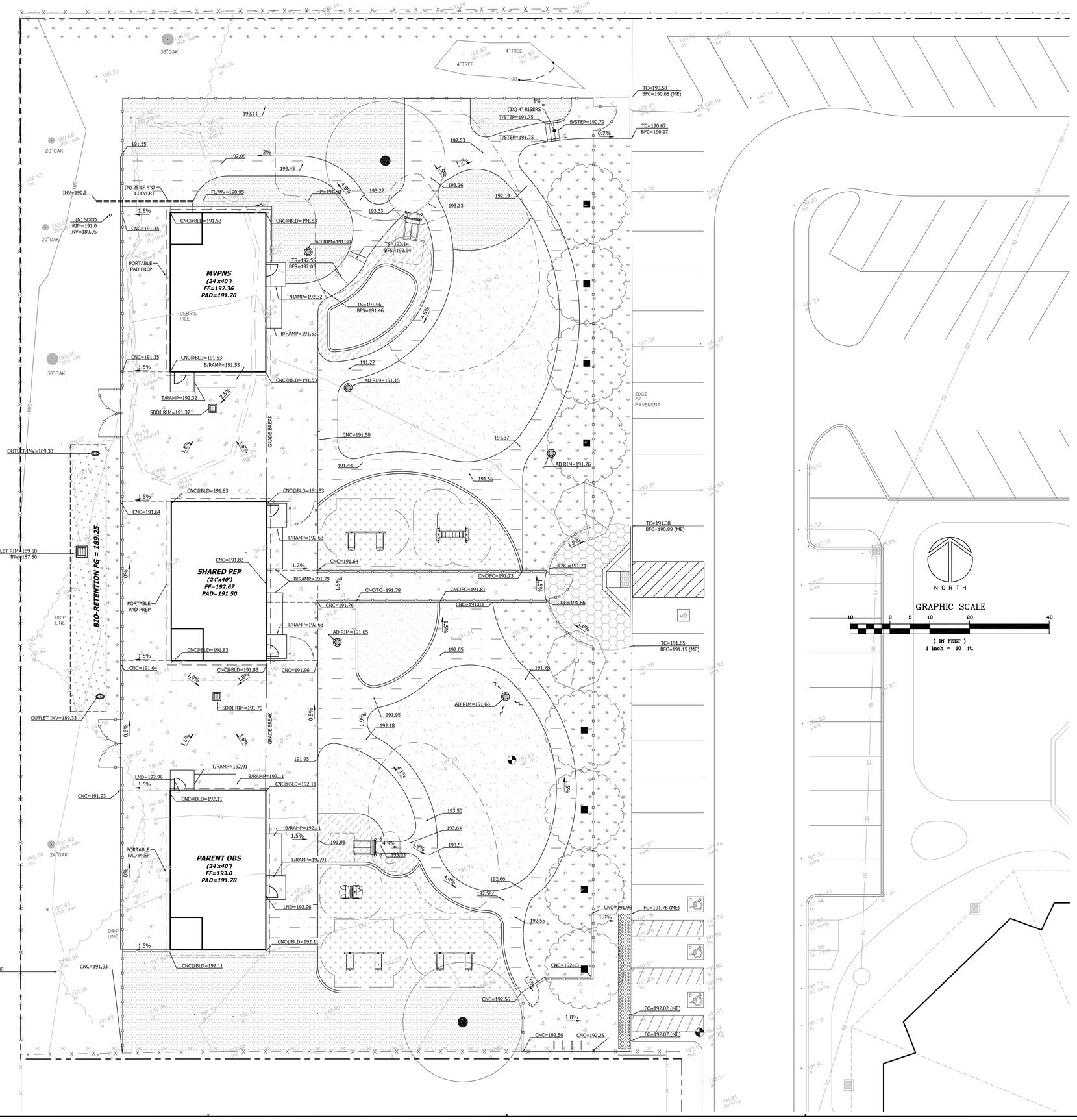

GENERAL NOTES

GRADING

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EARTHWORK NECESSARY TO ACHIEVE FINISH GRADE AS SHOWN ON THIS PLAN. OFF HAUL AND/OR IMPORT OF SOIL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR

NO CHANGE TO THE GRADING PLAN SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE OWNER OR OWNERS REPRESENTATIVES. THE INTENT OF THE DRAWING AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA-AC BEFORE PROCEEDING WITH THE WORK

IF ANY INDICATIONS OF ARCHEOLOGICAL REMIANS ARE ENCOUNTERED DURING GRADING ACTIVITIES FOR ANY DEVELOPMENT WITHIN THE PROJECT SITE, ALL WORK SHALL BE HALTED WITHIN 200 FOOT RADIUS OF THE FIND. OWNER SHALL RETAIN A QUALIFIED ARCHEOLOGIST RETAINED TO DETERMINE THE NATURE OF THE DISCOVERY AND RECOMMEND APPROPRATE EVALUATION PROCEDURES.

CONTRACTOR RESPONSIBILITY

CONTRACTOR AGREES THAT HE SHOULD ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, AND THAT REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED DURING WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE DESIGN PROFESSIONALS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE DESIGN PROFESSIONAL FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

PORTABLE PAD PREPARATION

SITE PREPARATION QUANTITIES BELOW REPRESENT OVER-EXCAVATION AND RECOMPACTION NECESSARY FOR SUBGRADE. THESE QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR SHALL CONFORM TO SOILS REPORT FOR ALL SUBGRADE PREPARATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY SITE PREPARATION BASED ON THE SOILS REPORT

Item	Description	Cut cu.yds	Fill cu.yds	
1	BUILDINGS	280	140	(W/ 1' OVRBLD)
2	CONCRETE	210	210	(W/ 1' DEPTH)

*SHOWN FILL QUANTITIES DO NOT INCLUDE SHRINKAGE AND/OR SWELLING ASSOCIATED TO THE NECESSARY OVER-EXCAVATION AND RECOMPACTION.

SITE GRADING VOLUME TOTALS

NOTE: THE EARTHWORK VOLUMES SHOWN HEREON ARE EXCLUSIVE OF UTILITY TRENCHES, BUILDING FOUNDATIONS, WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECOMPACTION.

DESC.	CUT CU.YDS	FILL CU.YDS	NET CU.YDS
EG vs FG	-	-	-
HARDSCAPE DEDUCT	-	-	-
NET	-	-	-

- CU.YDS. OF CUT - ALL EXCESS SOILS SHALL BE OFF HAULED BY THE CONTRACTOR

THE ABOVE QUANTITTIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

ESTIMATE DOES NOT INCLUDE EXPANSION NOR CONTRACTION FACTORS FOR THE ABOVE QUANTITIES.

FLOW THRU PLANTER/BIO RETENTION VERSION: URQM METHOD			
DRAINAGE AREA FOR BMP:		Area (ac)	0.69
Determine the drainage area flowing into flow through planter.			
WATERSHED IMPERVIOUS RATIO:		Imp. Area (ac)	0.201
Amount of impervious area divided by the total area flowing to flow thru planter.		i.r.	0.291
WATERSHED RUNOFF COEFFICIENT		Cw	0.220
$C_w = .858i^3 - .78i^2 + .774i + .04$			
i= watershed impervious ratio			
MEAN ANNUAL PRECIPITATION (MAP):			
Determine mean storm event at site using reference gages			
M.A.P at Palo Alto		MAP_{gage}(inches)	13.7
Mean Storm Event at Palo Alto		P_{6gage}(inches)	0.52
M.A.P at Site (Use figure 1,SCVURPPP)		MAP_{site}(inches)	14
Mean Storm Event at Site			
$P_{6site} = [P_{6gage} \times MAP_{site}/MAP_{gage}]$		P_{6site}(inches)	0.531
REGRESSION CONSTANT:		a	1.963
a = 1.963 for a 48 hour drain time			
MAXIMIZED DETENTION STORAGE DEPTH:		P_0(inches)	0.230
$P_0 = (a \times C_w) \times P_{6site}$			
DESIGN VOLUME REQUIRED		V(acre-inch)	0.159
$V = P_0 \times A$		$V(ft^3)$	576.07
DESIGN VOLUME PROVIDED			
Approximate Length		Length(ft)	67
Bottom Width of Swale		Width(ft)	11
Freeboard Depth of Swale		Depth(ft)	0.33
Freeboard Volume $V=L \times A$		$V_{free}(ft^3)$	243.2
Treatment Soil Section (Void Ratio = .42)	1.5 FT	$V_{soil}(ft^3)$	464.31
Drain Rock Section (Void Ratio = .3)	1.5 FT	$V_{rock}(ft^3)$	364.815
		$V_{total}(ft^3)$	1072.335
Flow Thru Planter is Adequate for Treatment Event			

PLANNING SUBMITTAL

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REN. 9-30-13
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAMER
No. C 64561
Exp. 6/30/15
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GRADING & DRAINAGE PLAN

P.E.P. MODULAR CLASSROOMS RELOCATION
FOOTHILL COVENANT CHURCH OF LOS ALTOS
1555 OAK AVENUE
LOS ALTOS, CA 94024

REVISIONS

NO.	ITEM	DATE
1	PLANNING SUB	08/23/13

DRAWN BY:	DD
CHECKED BY:	TRC
JOB NO: 13018	DATE: 10/29/2013

C2.1

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