

APPENDIX B:
CONCEPTUAL LANDSCAPE PLAN AND GRADING PLAN

LANDSCAPE PLANTING MIX

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Table B-1 Landscape Planting Mix

Scientific Name	Common Name	Container Size/Application Rate
Trees		
<i>Quercus agrifolia oxyadenia</i>	Coast live oak	15 gallon
<i>Heteromeles arbutifolia</i>	Toyon	5 gallon
<i>Quercus ergelmanni</i>	Blue Oak	15 gallon
Shrubs		
<i>Adenostoma fasciculatum</i>	Chamise	1 gallon
<i>Agave shawii</i>	Coastal agave	1 gallon
<i>Arctostaphylos glauca</i>	Big berry manzanita	1 gallon
<i>Artemisia californica</i>	California sagebrush	1 gallon
<i>Baccharis pilularis 'Pigeon point'</i>	Dwarf coyote bush	1 gallon
<i>Ceanothus leucodermis</i>	Buck brush	1 gallon
<i>Cercocarpus betuloides</i>	Mountain mahogany	1 gallon
<i>Comarostaphylis diversifolia</i>	Summer holly	1 gallon
<i>Cotoneaster dammeri lowfast</i>	Bearberry cotoneaster	1 gallon
<i>Dudleya pulvenrulenta</i>	Chalk lettuce	1 gallon
<i>Galvezia speciosa</i>	Bush snapdragon	1 gallon
<i>Helianthemum scoparium</i>	Sun rose	1 gallon
<i>Heteromeles arbutifolia</i>	Toyon	1 gallon
<i>Malosma laurina</i>	Laurel sumac	1 gallon
<i>Rhamnus crocea</i>	Redbery	1 gallon
<i>Prunus ilicifolia</i>	Holly-leaved cherry	1 gallon
<i>Rhus ovata</i>	Sugar bush/laurel whitethorn	1 gallon
<i>Rhus trilobata</i>	Squaw bush	1 gallon
<i>Thymus serphyllum 'Reiters'</i>	Creeping thyme	1 gallon
Seeds		
<i>Acmispan glaber</i>	Deerweed	2 pounds/acre
<i>Camissonia bistorta</i>	California suncup	0.1 pounds/acre
<i>Deinandra fasciculata</i>	Golden tarplant	1 pounds/acre
<i>Dichelostemma capitatum</i>	Blue dicks	1 pounds/acre
<i>Elymus glaucus ssp. glaucus</i>	Blue wildrye	3 pounds/acre

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Scientific Name	Common Name	Container Size/Application Rate
<i>Eriogonum fasciculatum</i> var. <i>fasciculatum</i>	Coast California buckwheat	3 pounds/acre
<i>Eriophyllum confertiflorum</i>	Golden yarrow	2 pounds/acre
<i>Eschscholzia californica</i>	California poppy	1 pounds/acre
<i>Pseudognaphalium canescens</i>	Everlasting cudweed	2 pounds/acre
<i>Helianthemum scoparium</i>	Pak rush-rose	1 pounds/acre
<i>Isocoma menziesii</i>	Coast goldenbush	3 pounds/acre
<i>Lupinus bicolor</i>	Miniature lupine	1 pounds/acre
<i>Nassella pulchra</i>	Purple needlegrass	2 pounds/acre
<i>Osmadenia tenella</i>	Osmadernia	0.1 pounds/acre
<i>Sisyrinchium bellum</i>	Blue-eyed grass	2 pounds/acre

Source: SDG&E 2013

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CONCEPTUAL LANDSCAPE PLAN

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LEGEND

-  Proposed Contours
-  Existing Contours
-  Brush Management Zone Fire Buffer Line (50', 100', 150' From Fence)
-  Property Line
-  Decomposed Granite Surfacing
-  Paved Road

Plant material (Planted from containers):

Trees:

Botanical Name	Common Name	Size
 Quercus agrifolia 'oxyadenia'	Coast Live Oak	15 Gal
 Heteromeles arbutifolia	Toyon	5 Gal
 Quercus engelmannii	Blue Oak	15 Gal

ZONE 1:
Shrubs: 1 Per 100 s.f. Minimum

Arctostaphylos glauca	Big Berry Manzanita	1 Gal
Artemisia californica	California Sagebrush	1 Gal
Ceanothus leucodermis	Buck Brush	1 Gal
Cercocarpus betuloides	Mountain Mahogany	1 Gal
Cotoneaster dammeri 'Lowfast'	Bearberry cotoneaster	1 Gal
Dudleya pulvenrulenta	Chalk Lettuce	1 Gal
Helianthemum scoparium	Sun Rose	1 Gal
Malosma laurina	Laurel Sumac	1 Gal
Rhamnus crocea	Redberry	1 Gal
Prunus ilicifolia	Holly-leaved Cherry	1 Gal
Rhus ovata	Sugar Bush/Laurel Whitethorn	1 Gal
Rhus trilobata	Squaw Bush	1 Gal
Thymus serpyllum 'Reiters'	Creeping Thyme	1 Gal

ZONE 2:
Shrubs: 1 Per 100 s.f. Minimum

Adenostoma fasciculatum	Chamise	1 Gal
Agave shawii	Coastal Agave	1 Gal
Arctostaphylos glauca	Big Berry Manzanita	1 Gal
Artemisia californica	California Sagebrush	1 Gal
Baccharis pilularis 'Pigeon Point'	Dwarf Coyote Bush	1 Gal
Ceanothus leucodermis	Buck Brush	1 Gal
Cercocarpus betuloides	Mountain Mahogany	1 Gal
Comarostaphylis diversifolia	Summer Holy	1 Gal
Galvezia speciosa	Bush Snapdragon	1 Gal
Helianthemum scoparium	Sun Rose	1 Gal
Heteromeles arbutifolia	Toyon	1 Gal
Malosma laurina	Laurel Sumac	1 Gal
Prunus ilicifolia	Holly-leaved Cherry	1 Gal
Rhus ovata	Sugar Bush/Laurel Whitethorn	1 Gal
Rhus trilobata	Squaw Bush	1 Gal

LEGEND

ZONE 3:

Shrubs: 1 Per 100 s.f. Minimum		
Adenostoma fasciculatum	Chamise	1 Gal
Agave shawii	Coastal Agave	1 Gal
Arctostaphylos glauca	Big Berry Manzanita	1 Gal
Artemisia californica	California Sagebrush	1 Gal
Baccharis pilularis 'Pigeon Point'	Dwarf Coyote Bush	1 Gal
Ceanothus leucodermis	Buck Brush	1 Gal
Cercocarpus betuloides	Mountain Mahogany	1 Gal
Comarostaphylis diversifolia	Summer Holy	1 Gal
Galvezia speciosa	Bush Snapdragon	1 Gal
Helianthemum scoparium	Sun Rose	1 Gal
Heteromeles arbutifolia	Toyon	1 Gal
Malosma laurina	Laurel Sumac	1 Gal
Prunus ilicifolia	Holly-leaved Cherry	1 Gal
Rhus ovata	Sugar Bush/Laurel Whitethorn	1 Gal
Rhus trilobata	Squaw Bush	1 Gal

DETENTION BASIN:
Shrubs: 1 Per 100 s.f. Minimum

Carex spp.	Sedge	1 Gal
Juncus patens	Common Rush	1 Gal
Muhlenbergia rigens	Deer Grass	1 Gal
Sambucus nigra spp. mexicana	Blue Elderberry	1 Gal
Scirpus cernuus	Fiber Optics Plant	1 Gal

Cobble layer, 4" depth layer at and around the basin.

Hydrosed Mix: (Applied in 2 step process with seeds at bottom and MBFM on top)

Camissonia cheiranthifolia	Beach Evening Primrose
Deinandra fasciculata	Fasciated Tarplant
Encelia californica	Coastal Sunflower
Eriophyllum confertiflorum	Golden Yarrow
Eschscholzia californica	California Poppy
Gnaphalium bicolor	Bicolor Cudweed
Isocoma menziesii	Coast Goldenbush
Iva hayesiana	San Diego Marsh Elder
Lasthenia californica	Goldfields
Layia platyglossa	Tidy Tips
Lupinus bicolor	Miniature Lupine
Nassella pulchra	Purple Needlegrass
Phacelia campanularia	California Blue Bells
Sisyrinchium bellum	Blue-Eyes Grass
Viguiera lacinata	San Diego Sunflower

Landscape Concept:

ALL LANDSCAPE AND IRRIGATION SHALL CONFORM TO THE STANDARDS OF THE CITY OF CHULA VISTA LANDSCAPE STANDARDS. ALL TREES TO BE LOCATED AT LEAST THEIR MAXIMUM HEIGHT OR 1/2 WIDTH, WHICH EVER IS GREATER FROM SUBSTATION WALLS AND OVERHEAD LINES, IF ANY.

Planting:

The landscape surrounding the substation on the perimeter slopes and other disturbed areas will be composed of plants native to the project vicinity. The concept is to re-establish naturally occurring vegetation in the area in a manner that is consistent with the natural growth patterns. This planting will provide a visual continuity with the adjacent native landscape, and will become established to survive without supplemental irrigation after a 3 to 5 year establishment period. Englemann Oak and Coast Live Oak will be planted from containers to establish natural screening where possible. A native hydroseed will be applied to create a groundcover of native annuals, perennials and low woody shrubs. 1-gallon size native shrubs will be planted to supplement the hydroseed and establish the woody species such as Toyon, Sugar Bush, Coffee Berry, and Laurel Sumac. The goal of the planting is to be self-sustaining after the initial establishment period.

Fuel Modification Fire Buffers

Fuel modification zones will be established within 150 feet of the substation fence.

Zone 1 will consist of a 50' wide from the substation fence that included 20' wide un-planted gravel or Decomposed Granite buffer between the planting areas and the substation fence. This area also functions as the perimeter security camera zone, and for maintenance and fire fighting access. The pervious gravel material is to match the color of the natural soil. 30' wide planting area with low groundcover and not invasive materials. In individual trees maybe planted at an average rate of no less than one tree per 200 lineal feet, no closer than 15' from a property line or top of slope, and a minimum of 30' between mature canopies. This area will require continued maintenance to thin or remove dense growth of trees and shrubs, keep the groundcover low, and prevent build up of highly combustible materials.

Zone 2 is the area 51' too 100' from the substation fence. This area will consist of low groundcover and widely spaced clusters of shrubs (clusters not exceeding a total of 400 s.f.). Tree are planted a minimum distance of no less than 20' shall be maintained between the tree mature's canopies. The trees will be limbed up to maintain vertical separation from the understory shrub of 3x the height or 6' to lowest branch, whichever is greater.

Zone 3 is the area beyond 100' from the substation fence. This area will consist of low to medium high groundcover and randomly cluster of shrubs (succulent type plant material may exceed the height requirements, 48" high). Tree maybe located within this zone, provided that they are planted in clusters of trees of no more than three. Minimum distance of no less than 20' shall be maintained between the tree cluster's mature canopies. The trees will be limbed up to maintain vertical separation from understory shrubs.

Irrigation:

Permanent automatic irrigation system will be required for zone 1 and zone 2. Large radius and overhead spray type sprinklers will be used to provide full coverage to planted/hydroseeded areas. Zone 3 shall be serviced by a temporary, aboveground automatic irrigation system which will be turned off after 5 year establishment plan, but will remain in place. The overhead irrigation will be operated between the hours of 8:00 PM and 8:00 AM. The irrigation system will be monitored by flow sensor and master valve to detect and shut down valves that are malfunctioning. Check valves, high flow shut off, rain sensor and pressure regulation will help conserve water.

Maintenance:

The substation landscape and access road landscaping will be permanently maintained by SDG&E to promote a natural appearing, self-sustaining landscape. Substation maintenance will involve operating the irrigation as needed to supplement natural rainfall until plant cover is established. It is anticipated that the irrigation will only be operated in January through May to replicate natural rainfall. Bare areas will be reseeded yearly with the original native seed mix until satisfactory plant cover is established. Weeds will be removed and erosion controlled and repaired.

Access road maintenance will include weed removal, maintaining Erosion Control BMP's and re-seeding bare soil areas with the native hydroseed mix yearly, in late October, until cover has been established.

APPENDIX B
CONCEPTUAL LANDSCAPE PLAN AND GRADING PLAN

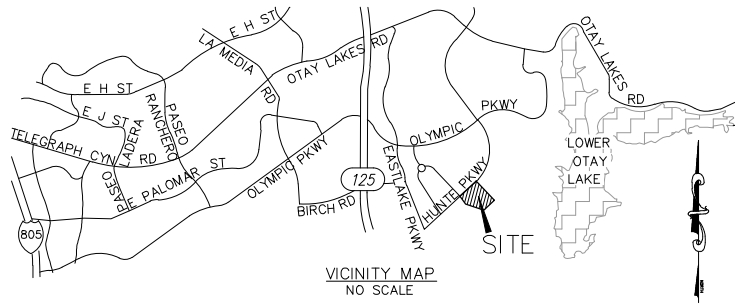
GRADING PLAN

GRADING NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE APPROVED PLANS AND APPROVED REVISIONS. ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER AND MITIGATION MONITOR PRIOR TO ANY REQUEST FOR INSPECTION.
2. ALL GRADING SHALL BE INSPECTED AND TESTED BY OR UNDER THE DIRECTION OF A QUALIFIED SOILS ENGINEER. THE SOILS ENGINEER SHALL: INSPECT THE EXCAVATION, AND SHALL OBSERVE AND TEST THE PLACEMENT, AND COMPACTION OF FILL AND BACKFILL AND COMPACTION OF TRENCHES; SUBMIT GEOTECHNICAL OR SOILS REPORTS AS REQUIRED AND DETERMINE THE SUITABILITY OF ANY FILL MATERIAL UPON COMPLETION OF GRADING OPERATIONS.
3. THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. CONTRACTOR SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE, AND SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED TO THE SATISFACTION OF THE CITY ENGINEER AND THE MITIGATION MONITOR.
4. ALL AREAS TO BE FILLED SHALL BE PREPARED PRIOR TO FILLING, AND FILL SHALL BE PLACED IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE SOILS REPORT. ALL VEGETABLE MATTER AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED, BY THE CONTRACTOR, FROM THE SURFACE UPON WHICH THE FILL IS TO BE PLACED.
5. CUT AND FILL SLOPES SHALL BE CUT AND TRIMMED TO THE FINISHED GRADE TO PRODUCE SMOOTH SURFACES AND UNIFORM CROSS SECTIONS. THE SLOPES OF EXCAVATIONS AND EMBANKMENTS SHALL BE SHAPED, TRIMMED, AND PLANTED IN ACCORDANCE WITH THE PLANTING NOTES AND AS DIRECTED BY THE ENGINEER OF WORK, AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS AND OTHER WASTE MATERIALS EXPOSED ON THE EXCAVATION OR EMBANKMENT SLOPES WHICH ARE LIABLE TO BECOME LOOSE, SHALL BE REMOVED AND DISPOSED OF. THE TOP AND TOP OF ALL SLOPES SHALL BE ROUNDED IN ACCORDANCE WITH ORDINANCE NO. 1797, THESE GRADING PLANS, AND THE STANDARD DRAWINGS CVDS 26 AND 27. SLOPE SETBACKS AND GRADES SHALL CONFORM TO CVDS 25.
6. IF THERE ARE EROSION SCARS ON EXISTING SLOPES WHICH OTHERWISE WOULD NOT BE ELIMINATED BY THE PROPOSED GRADING, THESE SCARS ARE TO BE ELIMINATED BY TRIMMING, FINE GRADING AND PLANTING. IF THE SCARS ARE IN AREAS OF NATIVE VEGETATION, THE REPAIRS SHOULD BE PERFORMED WITH AN EFFORT TO AVOID OR MINIMIZE IMPACTS TO NATIVE VEGETATION. ALL SUCH REPAIRS IN AREAS OF NATIVE VEGETATION SHALL BE REVIEWED AND APPROVED BY THE CITY'S MITIGATION MONITORING COORDINATOR PRIOR TO THE BEGINNING OF THE REPAIR WORK.
7. ALL TREES, BRUSH, GRASS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE COLLECTED, PILED OR OTHERWISE DISPOSED OF OFF THE SITE BY THE CONTRACTOR SO AS TO LEAVE THE AREAS THAT HAVE BEEN CLEARED WITH A NEAT AND FINISHED APPEARANCE FREE FROM UNSIGHTLY DEBRIS. APPROVAL OF LOCATIONS FOR DEBRIS FILL SHALL BE OBTAINED FROM THE SOILS ENGINEER PRIOR TO THE DISPOSAL OF ANY SUCH MATERIAL.
8. SUBDRAIN LOCATIONS SHOWN ARE APPROXIMATE AND ARE RECOMMENDED FOR ALL SIGNIFICANT FILL CANYONS. THE ACTUAL LOCATION AND EXTENT OF SUBDRAINS SHALL BE DETERMINED BY THE GEOTECHNICAL CONSULTANT AT THE TIME OF CONSTRUCTION.
9. BY REFERENCE HERE, THE REPORT "GEOTECHNICAL INVESTIGATION - PROPOSED SDG&E OTAY RANCH SUBSTATION" PREPARED BY KLEINFELDER, INC. ON SEPTEMBER 8, 2014 IS INCLUDED AS PART OF THESE PLANS.
10. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND SHOWN FOR GENERAL INFORMATION ONLY.
11. WHERE GRADING DOES NOT OCCUR, ALL EXISTING PLANT MATERIAL IS TO BE PROTECTED IN PLACE. NO CONSTRUCTION EQUIPMENT WILL BE ALLOWED TO TRAVEL THROUGH AND DAMAGE ANY OF THESE AREAS. ALL AREAS TO BE RETAINED IN A NATURAL CONDITION SHALL BE FENCED UNDER THE DIRECTION OF THE PROJECT BIOLOGIST. CONTRACTOR WILL BE RESPONSIBLE TO REPAIR ANY AND ALL DAMAGE/IMPACTS TO THESE AREAS.
12. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER OF WORK AS-BUILT PLANS FOR ALL NEW IMPROVEMENTS AND GRADING SHOWN ON THESE PLANS FOR SUBMITTAL TO THE CITY ENGINEER FOR APPROVAL IN ACCORDANCE WITH SECTION 15.04.140 OF THE CHULA VISTA MUNICIPAL CODE.
13. IN THE CASE OF CONFLICTS, THE REQUIREMENTS OF THE EARTHWORK SPECIFICATIONS PREPARED FOR THE PROJECT BY THE SOILS ENGINEER SHALL GOVERN THE REQUIREMENTS OF THIS PLAN AND THESE NOTES AND THESE PLANS SHALL BE REVISED ACCORDINGLY.

GRADING PLANS FOR SDG&E SALT CREEK SUBSTATION IN THE CITY OF CHULA VISTA, CALIFORNIA

APN 643-070-10
LEGAL DESCRIPTION THAT PORTION OF LOT 9 OF OTAY RANCHO, IN THE CITY OF CHULA VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 862, FILED IN THE OFFICE OF THE SAN DIEGO COUNTY RECORDER, FEB. 7, 1900, BEING MORE PARTICULARLY DESCRIBED IN THE GRANT DEED RECORDED JUNE 28, 2011, DOCUMENT NO. 2011-0326939.



GENERAL NOTES
1. THE SOILS REPORT TITLED "UPDATE GEOTECHNICAL INVESTIGATION PROPOSED SDG&E SALT CREEK SUBSTATION CHULA VISTA, CALIFORNIA" PREPARED BY KLEINFELDER, INC. DATED OCTOBER 3, 2014 SHALL BE CONSIDERED TO BE PART OF THIS GRADING PLAN. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN SAID REPORT.
2. STORM DRAINS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF SIZES, LOCATIONS, AND TYPE OF SEWER AND DRAINAGE FACILITIES, OR ANY SURFACE IMPROVEMENTS WITHIN FUTURE STREET RIGHTS-OF-WAY SHOWN ON THESE PLANS. SEPARATE APPROVALS AND PERMITS FOR THESE SHALL BE REQUIRED IN CONJUNCTION WITH IMPROVEMENT PLANS.
3. WRITTEN PERMISSION SHALL BE OBTAINED FOR ANY OFF-SITE GRADING.
4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING GRADING OPERATIONS. ANYTHING DAMAGED OR DESTROYED SHALL BE REPLACED OR REPAIRED TO CONDITION EXISTING PRIOR TO GRADING.
5. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MOUNUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL MOUNUMENTS; AND IF DESTROYED, A LAND SURVEYOR, OR A CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING SHALL REPLACE SUCH MOUNUMENTS WITH THE APPROPRIATE MOUNUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF CHULA VISTA SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST THREE (3) DAYS PRIOR TO THE CONSTRUCTION. THE DEVELOPER/CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
6. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
7. ALL FLOWS SHOWN ARE FOR 100-YEAR STORM.
8. ALL SEDIMENTATION BASINS, OUTLET PIPES AND DITCHES ARE PRIVATE UNLESS OTHERWISE NOTED AND HAVE NOT BEEN REVIEWED FOR ADEQUACY BY THE CITY ENGINEERING DEPARTMENT.
9. THE OWNER MUST OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (D.O.S.H.) FOR CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER INTO WHICH A PERSON IS REQUIRED TO DESCEND SAID PERMIT IS REQUIRED PRIOR TO ISSUANCE OF A GRADING PERMIT BY THE CITY OF CHULA VISTA.
10. GRADING EQUIPMENT SHALL NOT USE OR BLOCK TRAFFIC LANES DURING GRADING ACTIVITY. TRUCK OPERATIONS IN AND OUT OF CONSTRUCTION AND STAGING AREAS SHALL BE CONTROLLED AS REQUIRED BY THE CITY. TRUCK AND EQUIPMENT ROUTES IN AND OUT OF THE SITE, SHALL BE APPROVED BY THE CITY PRIOR TO START OF WORK. AT THE END OF THE WORKING DAY, STREETS SHALL BE CLEANED OF DIRT AND CONSTRUCTION DEBRIS TO THE SATISFACTION OF THE CITY INSPECTOR AND THE MITIGATION MONITOR.
11. DUST GENERATED BY CONSTRUCTION ACTIVITIES SHALL COMPLY WITH LOCAL DUST CONTROL, ANY REQUIREMENTS OF ANY MITIGATION MONITORING PROGRAMS, AND UNIFORM BUILDING CODE (UBC) REQUIREMENTS, WHICH INCLUDE DUST CONTROL MEASURES FOR CONSTRUCTION SITES. DUST REDUCING MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, REGULAR WATERING OF GRADED SURFACES AND RESTRICTION OF ALL CONSTRUCTION VEHICLES AND EQUIPMENT TO TRAVEL ALONG ESTABLISHED AND REGULARLY WATERED ROADWAYS.

EARTHWORK QUANTITIES
CUT 61,800 CY / FILL 83,800 CY

NOTE: QUANTITIES NOT ADJUSTED FOR BULK OR SHRINK. TOTALS DO NOT INCLUDE REMEDIAL EARTHWORK, OVEREXCAVATION OR IMPORT SOILS FROM SUBSTATION ACCESS ROAD. EARTHWORK VOLUMES SHOWN HEREON ARE APPROXIMATE. ACTUAL VOLUMES ARE DEPENDENT UPON ACTUAL PERCENT OF BULK AND SHRINKING, QUANTITY OF REMEDIAL EXCAVATION, QUANTITY OF OVEREXCAVATION AND EXISTING SURFACE TOPOGRAPHY. EARTHWORK VOLUMES SHOWN ARE NOT FOR BID OR PAYMENT PURPOSES.

"ENGINEER OF WORK CERTIFICATE"
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF PLANS (SHEET XXXX-01 THRU 22) HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE SAID PLANS, ALL APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT.
SIGNED: DATE:
PRINTED NAME: P.E. No.
DISCIPLINE: MY REGISTRATION EXPIRES:



BASIS OF BEARINGS
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CENTERLINE OF HUNTE PARKWAY AS SHOWN ON MAP NO. 15233, I.E. N78°26'26"W
TOPOGRAPHY
SOURCE OF TOPOGRAPHY IS: DEVELOPED BY PHOTOGRAMMETRIC METHODS BASED ON AERIAL SURVEY BY PROJECT DESIGN CONSULTANTS, 701 B STREET, #800, SAN DIEGO, CA 92101 ON OCTOBER 4, 2006.
BENCHMARK
ELEVATIONS SHOWN ARE ON THE NAVD88 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.

OWNERS CERTIFICATE
IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS. IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE THE ENGINEER OF WORK MAKE SUCH CHANGES, ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE ENGINEER OF WORK DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS. ALL PLAN CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION. I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING CITY RIGHT-OF-WAY WITHIN 60 DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

NAME:
ADDRESS:
PHONE:
BY: DATE:

DECLARATION OF RESPONSIBLE CHARGE
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF THE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF CHULA VISTA AND OTAY WATER DISTRICT IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

CV No. 2511
EXPIRES: 12-31-15
CEG No. 1651
EXPIRES: 8-31-16

SOILS ENGINEER'S CERTIFICATE
I, A REGISTERED CIVIL ENGINEER OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOIL MECHANICS, HEREBY VERIFY THAT A SAMPLING AND STUDY OF THE SOIL CONDITIONS PREVALENT WITHIN THIS SITE WAS MADE BY ME OR UNDER MY DIRECTION BETWEEN THE DATES OF AND ONE COMPLETE COPY OF THE SOILS REPORT COMPILED FROM THIS STUDY, WITH MY RECOMMENDATIONS, HAS BEEN SUBMITTED TO THE OFFICE OF THE CITY ENGINEER.
THESE GRADING PLANS HAVE BEEN REVIEWED BY ME OR UNDER MY DIRECTION AND CONFORM TO THE RECOMMENDATIONS MADE IN THE SOILS REPORT MENTIONED ABOVE.



SHEET INDEX table with columns: SHT#, SDGE SHT#, TITLE OF SHEET

California Council of Civil Engineers & Land Surveyors
Construction contractor agrees that in accordance with generally accepted construction practices contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project including safety of all persons and property that this requirement shall be made to apply continuously and not be limited to normal working hours and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged, in connection with the performance of work on this project excepting liability arising from the sole negligence of design professional.

WORK TO BE DONE
THE WORK TO BE DONE CONSISTS OF THE ITEMS INDICATED UNDER THE "LEGEND" SHOWN BELOW, AND IS TO BE DONE IN ACCORDANCE WITH THESE PLANS AND THE FOLLOWING LIST OR PRINTED MATERIALS AS CURRENTLY ADOPTED BY THE CITY OF CHULA VISTA CITY COUNCIL INCLUDING THE FOLLOWING:

- STANDARD DRAWINGS
1. SAN DIEGO AREA REGIONAL STANDARD DRAWINGS, FILED AUGUST 2012.
2. SAN DIEGO REGIONAL SUPPLEMENT TO THE 2012 EDITION OF THE "GREENBOOK" DATED SEPTEMBER 2012
3. WATER AGENCY STANDARDS (SDWAS), FEBRUARY 2008.
4. DESIGN AND CONSTRUCTION STANDARDS OF CITY OF CHULA VISTA. 2002.

- STANDARD SPECIFICATIONS
1. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK") (2012 EDITION)
2. SAN DIEGO REGIONAL SUPPLEMENT TO THE 2012 EDITION OF THE "GREENBOOK" DATED SEPTEMBER 2012
3. STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS (2010 EDITION)
4. STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) (2012 EDITION)
5. DESIGN AND CONSTRUCTION STANDARDS OF THE CITY OF CHULA VISTA (2008 EDITION)
ALL REFERENCES ARE TO BE MADE PART OF THESE PLANS. ANY CHANGES OR REVISIONS THEREFROM, SHALL BE APPROVED BY THE CITY ENGINEER, OR HIS DESIGNEE, PRIOR TO ANY REQUEST FOR INSPECTION.

LEGEND table with columns: DESCRIPTION, REF DWG, SYMBOL

County of San Diego Department of Environmental Health and Water Quality Division
Project: OTAY WATER DISTRICT
Reviewed by: AS BUILT

DIG ALERT logo and text: UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA "DIG ALERT NOTICE"

UTILITY NOTE
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION RECORD table with columns: Contractor, Inspector, Date completed, Revisions, Date, App'd, Scale, Designed By, Drawn By, Checked By, Submitted, Approved

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT
GRADING PLANS FOR: SDG&E SALT CREEK SUBSTATION
Drawing No. XXXXX-01
W.O. No. XX-XXXX
O.W.D. NO. XXXX



SPECIAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE QUANTITIES SHOWN HEREON AND BALANCING THE EARTHWORK ONSITE...
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES ARE BUILT IN ACCORDANCE WITH THESE PLANS...
3. THE PALEONTOLOGICAL MONITOR SHALL BE PRESENT DURING THE GRADING OF THE PLEOCENE SAN DIEGO FORMATION (TSD) ON THE SITE...
4. THE CONTRACTOR SHALL UNCOVER ALL UTILITIES THAT MAY BE JOINED, CROSSED, OR PARALLELED TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATION PRIOR TO ANY CONSTRUCTION...
5. ALL FILL AREAS, WHICH ARE FENCED, SHALL REMAIN FENCED...
6. ALL APPROVED GEOTEXTILE ENGINEERING FABRIC SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS...
7. A 6" MINIMUM THICKNESS BEDDING BLANKET UNDERLAIN BY A LAYER OF GEOTEXTILE (MIRAFI 700X OR EQUIVALENT) SHALL BE CONSTRUCTED BENEATH ALL RIP RAP...
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING, RELOCATING, AND OR REMOVAL OF EXISTING UTILITIES...
9. THE CONTRACTOR SHALL REPLACE ALL DESTROYED OR DAMAGED SURFACE IMPROVEMENTS WITH IMPROVEMENTS EQUAL OR SUPERIOR...
10. ALL CONTOURS AND ELEVATIONS SHOWN HEREON REPRESENT FINISH GRADE...
11. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS...

NOTIFICATIONS

- 1. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORD, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN HEREON...
2. CONTRACTOR SHALL NOTIFY THE CITY ENGINEER'S OFFICE (PHONE 619- 585-5737) AND THE MITIGATION MONITOR AT THE PLANNING DIVISION (PHONE 619- 691-5101) 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING ANY WORK ON THIS PROJECT...
3. THE CONTRACTOR SHALL GIVE 24 HOURS (ONE WORKING DAY) NOTICE ON CALLS FOR INSPECTION...
4. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL AT CONTRACTOR'S EXPENSE.

LANDSCAPING NOTES

- 1. ALL SLOPES SHALL BE PLANTED AND IRRIGATED IN ACCORDANCE WITH PLANS APPROVED BY THE CITY OF CHULA VISTA DIRECTOR OF PARKS AND RECREATION AND CITY ENGINEER...
2. FINISH GRADING AND PLANTING SHALL BE ACCOMPLISHED ON ALL SLOPES PRIOR TO OCTOBER 1 OR IMMEDIATELY UPON COMPLETION OF ANY SLOPES GRADED BETWEEN OCTOBER 1 AND APRIL 1...
3. PRIOR TO GRADING, CONTRACTOR SHALL FIELD VERIFY EXISTING IRRIGATION SYSTEMS TO DETERMINE WHICH ARE OPERABLE...

EROSION CONTROL NOTES

PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, TEMPORARY EROSION CONTROL SHALL BE PREFORMED AND INSTALLED BY THE CONTRACTOR AS INDICATED BELOW:

- 1. THE EROSION CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION AND MODIFICATION OF THE EROSION CONTROL DEVICES DURING THE RAINY SEASON...
2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER AND MITIGATION MONITOR...
3. TEMPORARY EROSION CONTROL DEVICES, WHICH INTERFERE WITH THE WORK, SHALL BE RELOCATED OR MODIFIED AS THE WORK PROGRESSES...
4. ALL REMOVABLE PROTECTION DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40 PERCENT...
5. EFFECTIVE PLANTING SHALL BE INSTALLED, FULLY GERMINATED, AND SHALL EFFECTIVELY COVER THE REQUIRED SLOPES PRIOR TO FINAL APPROVAL...
6. A 12 INCH HIGH BY 3 FEET WIDE BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS...
7. SILT BASINS, TRAPS, OR SANDBAGS SHALL BE PROVIDED AT EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM...
8. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPE, THE CONTRACTOR SHALL INSURE THAT WATER DRAINING TO THE SUMPS IS DIRECTED INTO THE INLET...
9. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY...
10. THE CONTRACTOR SHALL CHECK AND MAINTAIN LINED AND UNLINED DITCHES AFTER EACH RAINFALL...
11. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH RAINFALL EXCEEDING 1/4" IN A 12-HOUR PERIOD AND WHEN SILT REACHES A DEPTH OF 1.0'...
12. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON...
13. DEVICES SHOWN ON THESE PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE PUBLIC WORKS INSPECTOR AND MITIGATION MONITOR...
14. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER AND MITIGATION MONITOR AFTER EACH RAINFALL WHICH PRODUCES RUNOFF...
15. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE CITY ENGINEER OR MITIGATION MONITOR DUE TO INCOMPLETE GRADING OPERATIONS OR UNFORSEEN CIRCUMSTANCE WHICH MAY ARISE...
16. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION...
17. ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON...
18. GRADED AREA AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY...
19. IN CASE EMERGENCY WORK IS REQUIRED, CONTACT (DEVELOPER'S NAME & PHONE NO.)...
20. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT MAY RESULT FROM GRADING OPERATIONS BY APPROPRIATE MEANS (SANDBAGS, HAY BALES, TEMPORARY DESLTING BASINS, SILT FENCES, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE TOTAL PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY OWNER.

NOTE: EROSION CONTROL FOR INACTIVE AREAS OF CONSTRUCTION

CONTRACTOR SHALL PROVIDE SOIL STABILIZATION B MPS TO ANY AREAS OF CONSTRUCTION THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE RE-DISTURBED FOR AT LEAST 14 DAYS.

SOME OF THE SOIL STABILIZATION B MPS THAT CAN BE UTILIZED, AND CAN BE USED IN CONJUNCTION WITH EACH OTHER, OR USED WITH OTHER SOIL STABILIZATION AND SEDIMENT CONTROL B MPS TO REDUCE EROSION AND SEDIMENT AND POLLUTION TRANSPORT ARE:

- HYDRAULIC MULCH (SS-3)
• HYDROSEEDING (SS-4)
• SOIL BINDERS (SS-5)
• STRAW MULCH (SS-6)
• ROLLED EROSION CONTROL PRODUCTS (SS-7)
• WOOD MULCH (SS-8)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STATEMENT

DEVELOPMENT OF THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF STATE WATER RESOURCES CONTROL BOARD (SWRCB) (NPDES GENERAL PERMIT NO. CAS000002, WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY)...

A COMPLETE AND ACCURATE NOTICE-OF-INTENT (NOI) WILL BE FILED WITH THE SWRCB. A COPY OF THE ACKNOWLEDGMENT FROM THE SWRCB THAT A NOI HAS BEEN RECEIVED FOR THIS PROJECT SHALL BE FILED WITH THE CITY OF CHULA VISTA WHEN RECEIVED...

IN ADDITION, THE UNDERSIGNED AND SUBSEQUENT OWNER(S) OF ANY PORTION OF THE PROPERTY COVERED BY THIS GRADING PERMIT NO. PG - _____ SHALL COMPLY WITH SPECIAL PROVISIONS REGARDING THE REVOCATION OR CANCELLATION OF NPDES GENERAL PERMIT COVERAGE, AS SET FORTH IN SWRCB ORDER NO. CAS000002, AND ANY SUBSEQUENT AMENDMENTS THERETO AND REISSUANCES THEREOF.

OWNER OF LAND
SIGNATURE OF LAND OWNER, CORPORATE OFFICE, GENERAL PARTNER, OR PROPRIETOR
DATE
PRINTED NAME OF ABOVE PERSON
TITLE
PERMIT IDENTIFICATION NUMBER

ABBREVIATIONS

Table with columns: APPROX, APPROXIMATE, FS, FINISH SURFACE, RC, RELATIVE COMPACTON. Rows include AC, AB, BW, CB, CI, C&G, CONC, CL, CP, DIA, DWG, DG, ELEV, EP, EX, FF, IE, ID and their corresponding definitions.

PRECONSTRUCTION CONFERENCE

THE CONTRACTOR SHALL NOT BEGIN ANY WORK ON THIS PROJECT UNTIL A PRECONSTRUCTION CONFERENCE IS HELD WITH THE ENGINEER OF WORK, THE SOILS ENGINEER, ENGINEERING GEOLOGIST, A QUALIFIED PALEONTOLOGICAL MONITOR, A BOTANIST, THE DEVELOPER, THE CITY, AND THE OTAY WATER DISTRICT.

CONTRACTOR'S NOTE

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

AS-BUILTS

THE CONTRACTOR SHALL FURNISH TO THE ENGINEER OF WORK, AS-BUILT PLANS FOR ALL NEW IMPROVEMENTS AND GRADING SHOWN ON THESE PLANS FOR SUBMITTAL TO THE CITY ENGINEER FOR APPROVAL IN ACCORDANCE WITH SECTION 15.04.140 OF THE CHULA VISTA MUNICIPAL CODE.

CONTRACTOR NOTES

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTION TO THE CONTRACTOR BY THE ENGINEER OF WORK.

- 1. NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS...
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD, MOISTURE CONDITION AND COMPACT ALL FILL IN STRICT ACCORDANCE WITH BLACK & VEATCH'S SPECIFICATIONS...
3. OBSERVATIONS AND COMPACTION TESTS SHALL BE MADE BY THE GEOTECHNICAL ENGINEER DURING THE FILLING AND COMPACTING OPERATIONS...
4. DURING CONSTRUCTION, THE CONTRACTOR SHALL GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER...
5. AFTER GRADING IS COMPLETED AND THE GEOTECHNICAL ENGINEER HAS FINISHED HIS OBSERVATIONS OF THE WORK, NO FURTHER GRADING SHALL BE DONE EXCEPT UNDER THE OBSERVATIONS OF THE GEOTECHNICAL ENGINEER...
6. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS...
7. CUT SLOPES SHALL BE SERRATED AND LEFT ROUGH. FILL SLOPES SHALL BE OVERBUILT BY AT LEAST 3 FEET AND CUT BACK TO DESIRED SLOPE...
8. WHERE TRENCHES ARE WITHIN EASEMENTS, STREETS, OR 10 FEET OF ANY BUILDING, SOILS REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF WORK...
9. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY...
10. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS...
11. CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING WORK NEAR COMPANY FACILITIES...
12. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM A SEARCH OF THE AVAILABLE RECORDS...
13. FILL AND CUT SLOPES ARE 2:1 HORIZONTAL TO VERTICAL UNLESS OTHERWISE NOTED...
14. ALL ON SITE IMPROVEMENTS ARE PRIVATE...
15. THE ELEVATIONS SHOWN ON THE PLANS REPRESENT THE FINISH SURFACE ELEVATIONS OF ROADS, PAVEMENTS, AGGREGATE SURFACING, FLOOR SLABS ON-GRADE, AND LANDSCAPED AREAS...
16. GRADING SHALL BE DONE WITHIN A TOLERANCE OF (+/-)0.1' OF THE GRADES AND ELEVATIONS SHOWN ON THESE PLANS...
17. ANY QUANTITIES INDICATED ON THESE PLANS ARE ENGINEERS' ESTIMATES ONLY AND ARE NOT TO BE USED BY CONTRACTOR FOR BIDDING PURPOSES...
18. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION...
19. PRIOR TO START OF CONSTRUCTION, CONTRACTOR TO FIELD VERIFY JOIN LOCATION AND ELEVATIONS OF ALL STORM DRAIN, SEWER, AND WATER FACILITIES.



AS BUILT, UTILITY NOTE, O.W.D AS BUILT, PROJECT #, PERMIT #, SIGNATURE, DATE, ENGINEER, RCE #, DISCIPLINE, REVIEWED BY, CONSTRUCTION RECORD, REFERENCES, BY, REVISIONS, DATE, APP'D, BENCH MARK, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY, SUBMITTED, APPROVED, CITY OF CHULA VISTA, ENGINEERING DEPARTMENT, DRAWING NO., CONTRACTOR, P.E. No., DATE COMPLETED, DESCRIPTION, ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM...
CITY OF CHULA VISTA ENGINEERING DEPARTMENT
DRAWING NO. XXXXX-02
W.O. No. XX-XXXX

PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX

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OTAY WATER DISTRICT WATER NOTES:

1. WATER MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE CURRENT APPROVED WATER AGENCIES' STANDARDS.
2. OTAY DISTRICT INSPECTION SHALL RECEIVE THE CONSTRUCTION SCHEDULE AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION. WORK DONE WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REMOVAL AT THE CONTRACTOR'S EXPENSE. THE TELEPHONE NUMBER OF OTAY WATER DISTRICT INSPECTION IS (619) 670-2203.
3. CONSTRUCTION SHALL NOT START UNTIL THE SUBDIVISION AGREEMENT HAS BEEN EXECUTED BETWEEN THE OTAY WATER DISTRICT AND THE DEVELOPER AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD WITH THE OTAY WATER DISTRICT'S INSPECTION DEPARTMENT.
4. THE CONTRACTOR SHALL POTHOLE ALL TIE-IN LOCATIONS BEFORE PIPE INSTALLATION TO DETERMINE PIPE SIZE AND MATERIAL, ELEVATION, AND IF TIE-IN CAN BE MADE AT THE LOCATION INDICATED. THE CONTRACTOR SHALL ALSO POTHOLE ALL EXISTING UTILITIES THAT MAY INTERFERE WITH THE TIE-IN LOCATION AND EXPOSE PIPE A MINIMUM OF 3- FEET ON EACH SIDE OF THE CONNECTION POINT TO ASSURE THAT NO COLLARS ARE IN THE TAP AREA. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OTAY WATER DISTRICT'S ENGINEERING DEPARTMENT, PUBLIC SERVICES PRIOR TO PROCEEDING.
5. WATER PRESSURE REGULATORS WILL BE REQUIRED. THE INSTALLATION AND MAINTENANCE OF REGULATORS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.
6. APPROVAL OF THE PLANS BY THE OTAY WATER DISTRICT DOES NOT CONSTITUTE RESPONSIBILITY FOR ACCURACY OF INFORMATION NOR LOCATIONS OF EXISTING FACILITIES.
7. THE DEVELOPER AGREES THAT IF IT'S EMPLOYEES, AGENTS, OR ANY INDEPENDENT CONTRACTORS AND SUBCONTRACTORS SHOULD USE WATER OTHER THAN THROUGH AN AUTHORIZED WATER METER, THE DEVELOPER SHALL PAY \$1,000 PER OCCURRENCE, FOR SAID USE. SAID PAYMENT MAY BE DEDUCTED FROM ANY DEPOSIT THE DEVELOPER HAS WITH THE OTAY WATER DISTRICT.
8. NO PERSON, OTHER THAN AN EMPLOYEE OF AGENT OF THE OTAY WATER DISTRICT, SHALL HAVE ANY RIGHT TO OPERATE ANY PART OF THE WATER DISTRIBUTION SYSTEM. ANY PERSON WHO TAMPERS OR INTERFERES WITH ANY PART OR COMPONENT OF SAID SYSTEM, OR CAUSES OR PERMITS ANY ACT OF TAMPERING OR INTERFERING WITH THE SYSTEM, SHALL BE LIABLE FOR ANY INJURY OR DAMAGE CAUSED THEREBY OR RESULTING THEREFROM. IN ADDITION, A \$5,000 CHARGE PER OCCURRENCE WILL BE IMPOSED ON ANY PERSON OR COMPANY WHO OPERATES ANY PART OF THE OTAY WATER DISTRICT WATER DISTRIBUTION SYSTEM WITHOUT PROPER WRITTEN AUTHORIZATION.
9. NO MORE THAN 70 EQUIVALENT DWELLING UNITS CAN BE ON AN UNLOOPED SYSTEM.
10. NO MORE THAN 1,320 FEET OF MAIN SHALL BE IN USE WITHOUT LOOPING TO A SECOND SOURCE. THE WATER MAIN SHALL BE DESIGNED AND INSTALLED SO THAT IT TERMINATES AT A LOT LINE AND NOT WITHIN A LOT OR OTHERWISE APPROVED BY THE OTAY WATER DISTRICT.
11. THRUST BLOCK SIZING ASSUMES A SOIL BEARING CAPACITY OF 1,500 PSF. SHOULD FIELD CONDITIONS INDICATE A LESSER SOIL BEARING CAPACITY, NOTIFY THE OTAY WATER DISTRICT'S ENGINEERING DEPARTMENT, PUBLIC SERVICES.
12. THE TOP OF POTABLE WATER MAINS 12-INCHES IN DIAMETER AND SMALLER MUST BE 3.5 FEET BELOW FINISHED GRADE. THE TOP OF RECYCLED WATER MAINS 12- INCHES IN DIAMETER AND SMALLER MUST BE AT LEAST 4.5 FEET BELOW FINISHED GRADE. ALL WATER MAINS 16-INCHES IN DIAMETER AND LARGER MUST HAVE AN ADDITIONAL 1-FOOT OF COVER. THE TOP OF PIPE ELEVATIONS SHALL BE PROVIDED ON THE PROFILE EVERY 100 FEET. PIPELINES MUST BE THE CLASS AS SHOWN AND CONSTRUCTED ACCORDING TO THE APPROVED PLANS WITH A HORIZONTAL TOLERANCE OF 0.15 FEET AND A VERTICAL TOLERANCE OF 0.10 FEET.
13. EVERY RESIDENTIAL LOT MUST BE SERVED BY A 1-INCH COPPER SERVICE (WAS DWG WS-01). ALL OTHER LOTS MUST BE SERVED WITH A MINIMUM 2-INCH COPPER SERVICE (WAS DWG WS-02). CATHODIC PROTECTION WILL BE REQUIRED ON ALL NEW COPPER SERVICES (WAS DWG WC-17). ADDITIONALLY, ALL SACRIFICIAL ANODES SHALL BE TESTED FOR OPERATION AND A REPORT ISSUED BY THE DEVELOPER'S CORROSION ENGINEER. SERVICE SADDLES SHALL BE A MINIMUM 2.0 FEET AWAY FROM OTHER SADDLES AND OR JOINTS. MULTIPLE SADDLES ON THE SAME PIPE LENGTH SHALL BE ALTERNATELY STAGGERED 10 TO 30 DEGREES TO PREVENT A WEAK PLANE IN THE PIPE.
14. FOR CONNECTIONS TO EXISTING WATER MAINS, THE OTAY WATER DISTRICT WILL PERFORM THE WET TAP OR CUT-IN ONLY. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND BE RESPONSIBLE FOR ALL FACETS OF WORK TO COMPLETE INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO, EXCAVATION BY HAND OR MACHINE, CONNECTION TO NEW STUBS, POURING OF THRUST AND ANCHOR BLOCKS, INSTALLATION OF GATE CASING, PAINTING AND WRAPPING OF FITTINGS, BACKFILL AND COMPACTION OF TRENCH AREA, AND NECESSARY PAVEMENT REPAIRS.
15. A MINIMUM OF 24-INCHES OF PERMANENT BACKFILL SHALL BE INSTALLED OVER THE WATER MAIN PRIOR TO ANY TESTING.


DEPARTMENT OF ENVIRONMENTAL HEALTH RECYCLED WATER NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH OTAY WATER DISTRICT'S RULES AND REGULATIONS.
2. DRINKING WATER FOUNTAINS AND DESIGNATED OUTDOOR EATING AREAS SHALL BE PROTECTED AGAINST CONTACT WITH RECYCLED WATER SPRAY, MIST, OR RUNOFF.
3. BEST MANAGEMENT PRACTICES SHALL BE USED TO ELIMINATE OR CONTROL TO THE BEST EXTENT POSSIBLE PONDING, RUN-OFF, OVER-SPRAY AND MISTING.
4. HOSE BIBS ARE STRICTLY PROHIBITED.
5. CROSS-CONNECTIONS BETWEEN RECYCLED WATERLINES AND POTABLE WATER LINES ARE STRICTLY PROHIBITED.
6. NO SUBSTITUTIONS OF PIPE MATERIALS WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE OTAY WATER DISTRICT.
7. ALL MAINLINE PIPES SHALL HAVE WARNING TAPE PER OTAY WATER DISTRICT'S RULES AND REGULATIONS.
8. HOURS FOR IRRIGATION WITH RECYCLED WATER ARE FROM 9:00 P.M. TO 6:00 A.M. THE HOURS FOR IRRIGATION WITH DISINFECTED TERTIARY RECYCLED WATER MAY BE MODIFIED BY THE LOCAL AUTHORITY. IRRIGATION DURING PUBLIC USE PERIODS WITH DISINFECTED TERTIARY RECYCLED WATER SHALL BE UNDER THE SUPERVISION OF THE DESIGNATED USER SUPERVISOR. IRRIGATION WITH WATER OF A LESSER QUALITY THAN DISINFECTED TERTIARY RECYCLED WATER SHALL BE BETWEEN THE HOURS OF 9:00 P.M. AND 6:00 A.M.
9. BURIAL OF ALL WIRING AND PIPING SHALL MEET OTAY WATER DISTRICT'S RULES AND REGULATIONS.
10. NON-DESIGNATED USE AREAS SHALL BE PROTECTED FROM CONTACT WITH RECYCLED WATER, WHETHER BY WINDBLOWN SPRAY OR BY DIRECT APPLICATION THROUGH IRRIGATION OR OTHER USE. LACK OF PROTECTION, WHETHER BY DESIGN, CONSTRUCTION PRACTICE OR SYSTEM OPERATION, IS STRICTLY PROHIBITED.
11. IRRIGATION HEADS SHALL BE RELOCATED OR ADJUSTED TO MINIMIZE OR ELIMINATE OVER-SPRAYING ON SIDEWALKS, STREETS AND NON-DESIGNATED USE AREAS.
12. RECYCLED WATER QUICK COUPLING VALVES SHALL BE OF A TYPE DESIGNED FOR THE USE ON RECYCLED WATER DISTRIBUTION SYSTEMS PER OTAY WATER DISTRICT'S RULES AND REGULATIONS.
13. ON RECYCLED WATER SYSTEMS, ALL APPURTENANCES (SPRINKLER HEADS, VALVE BOXES, ETC.) SHALL BE COLOR-CODED PURPLE PER AWWA GUIDELINES AND SECTION 116815 OF THE CALIFORNIA HEALTH AND SAFETY CODE.
14. ALL IRRIGATION PIPES SHALL BE STENCILED WITH THE WARNING, "NON- POTABLE OR RECYCLED WATER," COLOR-CODED (PURPLE) AND LAID WITH WARNING TAPE AND STENCILING ORIENTED TOWARD THE TOP OF THE TRENCH PER OTAY WATER DISTRICT'S RULES AND REGULATIONS.
15. ON NEW ON-SITE SYSTEMS (POST-METER), POTABLE WATER, CONSTANT PRESSURE RECYCLED WATER AND SEWER LINES SHOULD BE PLACED A MINIMUM OF FOUR FEET APART OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR REGULATORY AGENCY. MEASUREMENTS SHALL BE BETWEEN FACING SURFACES, NOT PIPE CENTERLINES.
16. CONSTANT PRESSURE RECYCLED WATERLINES SHALL CROSS AT LEAST TWELVE INCHES BELOW POTABLE WATERLINES AND MAINTAIN AT LEAST TWELVE INCHES CROSSING SEPARATION BETWEEN OTHER UTILITIES.
17. IF A CONSTANT PRESSURE RECYCLED WATER LINE MUST BE INSTALLED ABOVE A POTABLE WATER LINE OR LESS THAN TWELVE INCHES BELOW A POTABLE WATER LINE, THEN THE RECYCLED WATER LINE SHALL BE INSTALLED WITHIN AN APPROVED PROTECTIVE SLEEVE AS PER THE OTAY WATER DISTRICT'S RULES AND REGULATIONS.
18. DEVELOPER/CONTRACTOR SHALL CONDUCT A CROSS-CONNECTION TEST AND COVERAGE TEST AS DIRECTED BY OTAY WATER DISTRICT AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH PRIOR TO ANY USE OF RECYCLED WATER.
19. THE REQUIRED CROSS-CONNECTION INSPECTION SHALL BE DONE BY EITHER OTAY WATER DISTRICT AND/OR THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH. COPIES OF INSPECTION REPORTS WILL BE FORWARDED TO THE NON-INSPECTING PARTY.
20. THE DESIGN AND LOCATIONS PROPOSED FOR RECYCLED WATER "DO NOT DRINK" SIGNS SHALL BE CALLED OUT ON THE PLANS.

DEPARTMENT OF ENVIRONMENTAL HEALTH RECYCLED WATER NOTES CONTINUED

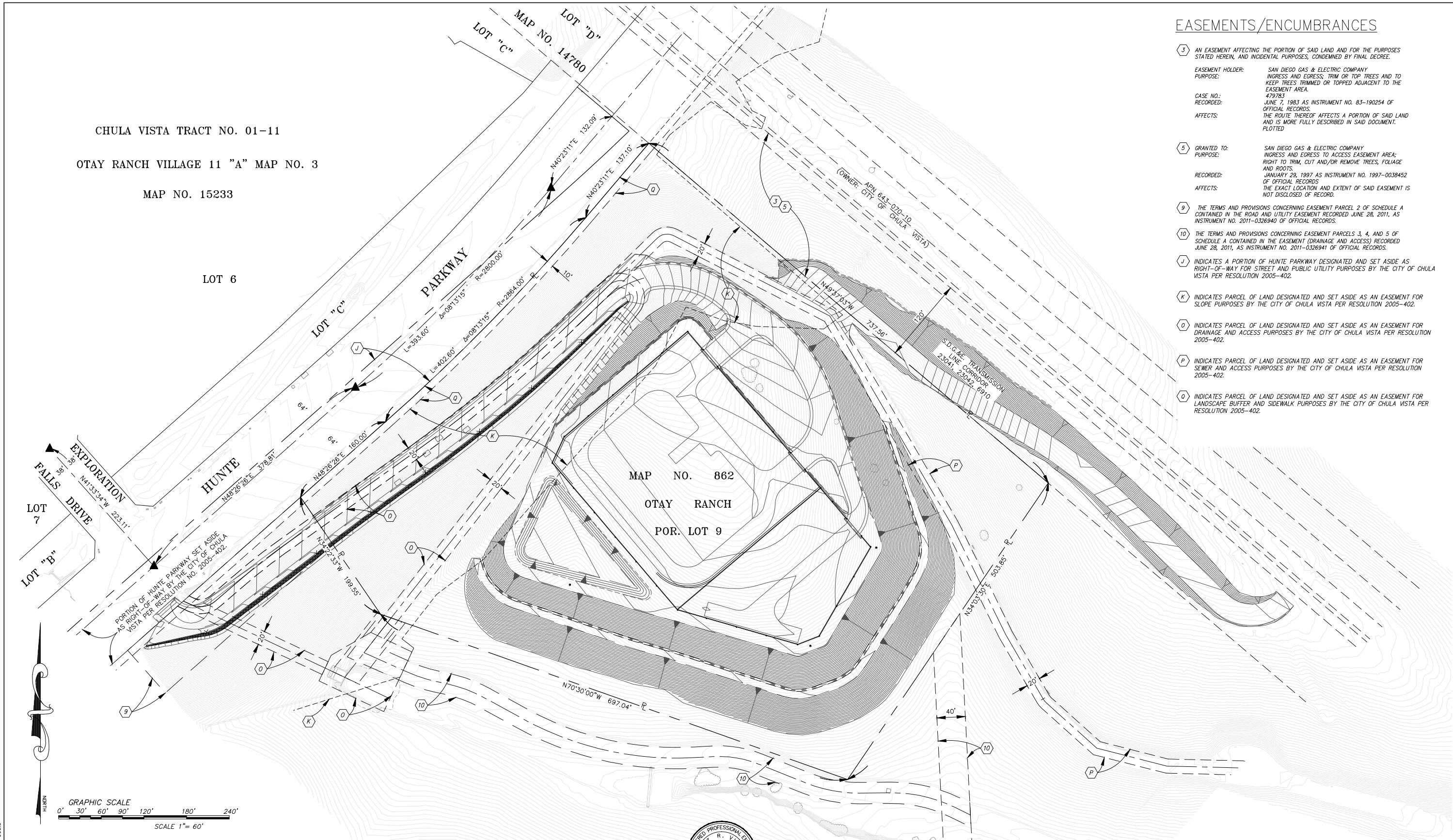
21. WHEN RECYCLED WATER BECOMES AVAILABLE, AN ON-SITE USER SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEMS WITHIN THE PROPERTY, WITH THE BASIC CONCEPTS OF BACKFLOW/CROSS-CONNECTION PROTECTION, THE RECYCLED PURVEYOR'S RULES AND REGULATIONS AND THE SPECIFIC REQUIREMENTS OF A RECYCLED WATER SYSTEM, COPIES OF THE DESIGNATION, WITH CONTACT PHONE NUMBERS SHALL BE PROVIDED TO THE NAME OF WATER DISTRICT AND/OR THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH. IN CASE OF EMERGENCY CONTACT _____ AT _____
OR AFTER HOURS CONTACT _____ AT _____
NAME PHONE NUMBER NAME PHONE NUMBER
22. ALL PUBLIC AND PRIVATE POTABLE WATER MAINS INCLUDING FIRE MAINS AND ANY WATER WELLS AND WATER COURSES WITHIN THE RECYCLED WATER PROJECT SHALL BE SHOWN ON THE PLANS.
23. CALL OUT ON THE PLANS IF THERE ARE OR ARE NOT DRINKING FOUNTAINS AND/OR DESIGNATED OUTDOOR EATING AREAS ON THIS SITE.
24. EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS OF THE PRESENCE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECYCLED WATER IS MEANT FOR IRRIGATION PURPOSES ONLY, AND IS NOT APPROVED FOR DRINKING PURPOSES, HAND WASHING, CLEANING OF TOOLS, ETC. GIVEN THE HIGH TURNOVER RATE OF EMPLOYEES IN THE LANDSCAPE INDUSTRY IT IS IMPORTANT THIS INFORMATION BE DISSEMINATED ON AN ALMOST DAILY BASIS.
25. A PHYSICAL SEPARATION SHALL BE PROVIDED BETWEEN ADJACENT AREAS IRRIGATED WITH RECYCLED WATER AND POTABLE WATER. SEPARATION SHALL BE PROVIDED BY DISTANCE, CONCRETE MOW STRIPS OR OTHER APPROVED METHODS.

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AS BUILT		UTILITY NOTE		O.W.D AS BUILT		PROJECT # OTAY WATER DISTRICT PERMIT # _____ P.Z. _____			
SIGNATURE _____ Date _____		ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.		SIGNATURE _____ Date _____		ENGINEER, RCE # _____ DATE _____			
Printed Name _____ My Registration Expires _____ Discipline _____				Printed Name _____ My Registration Expires _____ Discipline _____		REVIEWED BY _____ DATE _____			
CONSTRUCTION RECORD		REFERENCES		BY		REVISIONS		BENCH MARK	
Contractor _____								SCALE _____	
Inspector _____								Horizontal _____	
Date Completed _____								AS SHOWN _____	
								Vertical _____	
								AS SHOWN _____	
								Designed By _____	
								Drawn By _____	
								Checked By _____	
								Submitted _____	
								By _____	
								Approved _____	
								By _____	
								Deputy Director of Engineer	
								CITY OF CHULA VISTA ENGINEERING DEPARTMENT	
								GRADING PLANS FOR: SDG&E SALT CREEK SUBSTATION	
								NOTES	
								Drawing No. XXXXX-03	
								W.O. No. XX-XXXX	

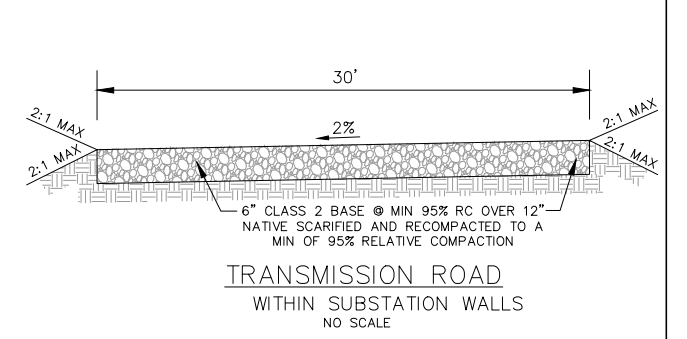
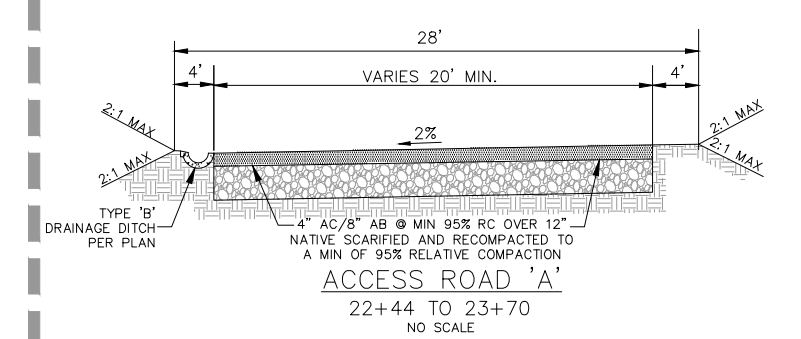
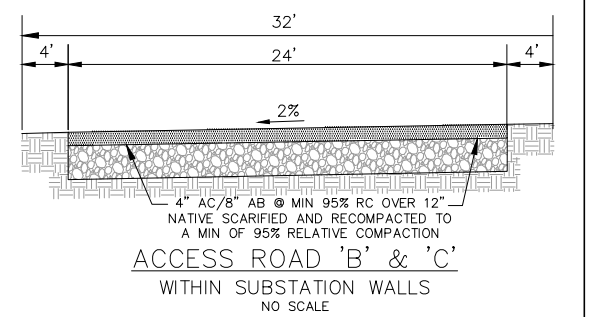
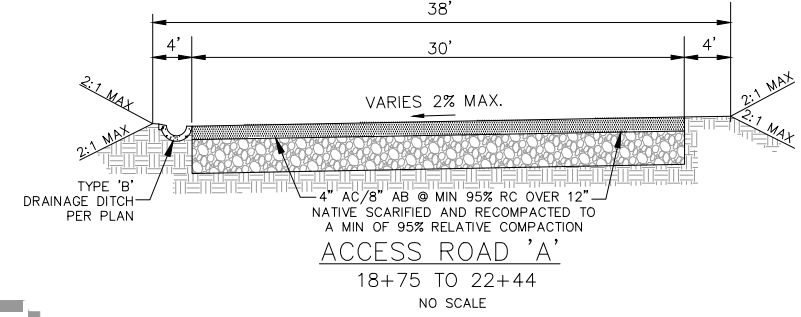
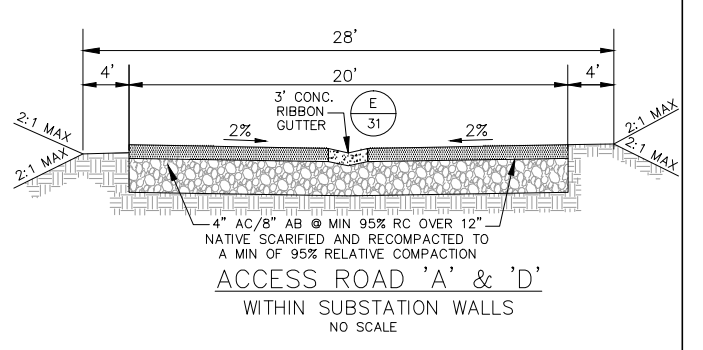
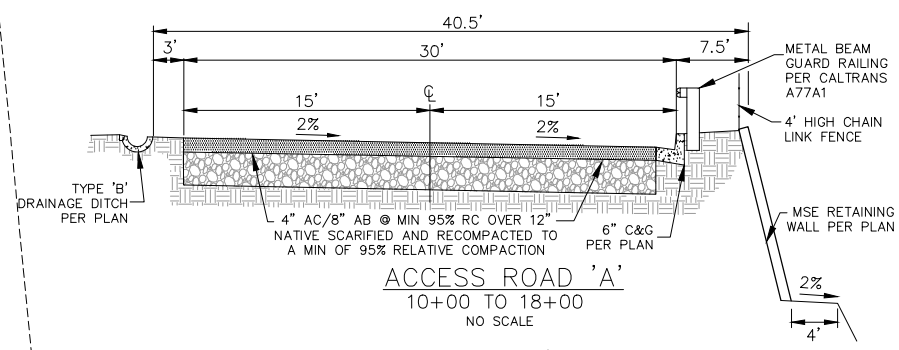
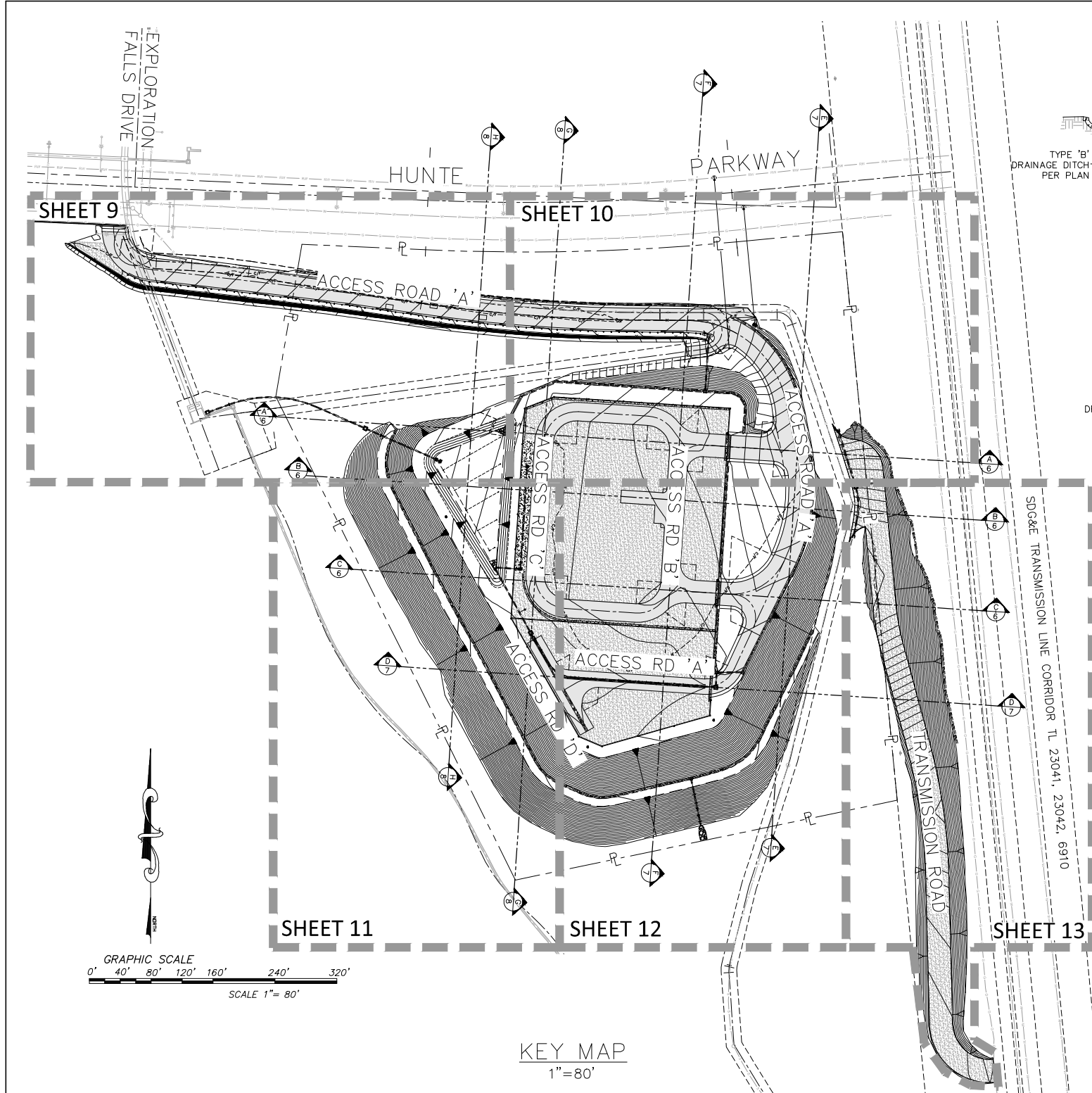
EASEMENTS/ENCUMBRANCES

- 3 AN EASEMENT AFFECTING THE PORTION OF SAID LAND AND FOR THE PURPOSES STATED HEREIN, AND INCIDENTAL PURPOSES, CONDEMNED BY FINAL DECREE.
 EASEMENT HOLDER: SAN DIEGO GAS & ELECTRIC COMPANY
 PURPOSE: INGRESS AND EGRESS; TRIM OR TOP TREES AND TO KEEP TREES TRIMMED OR TOPPED ADJACENT TO THE EASEMENT AREA.
 CASE NO.: 479783
 RECORDED: JUNE 7, 1983 AS INSTRUMENT NO. 83-190254 OF OFFICIAL RECORDS.
 AFFECTS: THE ROUTE THEREOF AFFECTS A PORTION OF SAID LAND AND IS MORE FULLY DESCRIBED IN SAID DOCUMENT, PLOTTED.
- 5 GRANTED TO: SAN DIEGO GAS & ELECTRIC COMPANY
 PURPOSE: INGRESS AND EGRESS TO ACCESS EASEMENT AREA; RIGHT TO TRIM, CUT AND/OR REMOVE TREES, FOLIAGE AND ROOTS.
 RECORDED: JANUARY 29, 1997 AS INSTRUMENT NO. 1997-0038452 OF OFFICIAL RECORDS.
 AFFECTS: THE EXACT LOCATION AND EXTENT OF SAID EASEMENT IS NOT DISCLOSED OF RECORD.
- 9 THE TERMS AND PROVISIONS CONCERNING EASEMENT PARCEL 2 OF SCHEDULE A CONTAINED IN THE ROAD AND UTILITY EASEMENT RECORDED JUNE 28, 2011, AS INSTRUMENT NO. 2011-0326940 OF OFFICIAL RECORDS.
- 10 THE TERMS AND PROVISIONS CONCERNING EASEMENT PARCELS 3, 4, AND 5 OF SCHEDULE A CONTAINED IN THE EASEMENT (DRAINAGE AND ACCESS) RECORDED JUNE 28, 2011, AS INSTRUMENT NO. 2011-0326941 OF OFFICIAL RECORDS.
- J INDICATES A PORTION OF HUNTE PARKWAY DESIGNATED AND SET ASIDE AS RIGHT-OF-WAY FOR STREET AND PUBLIC UTILITY PURPOSES BY THE CITY OF CHULA VISTA PER RESOLUTION 2005-402.
- K INDICATES PARCEL OF LAND DESIGNATED AND SET ASIDE AS AN EASEMENT FOR SLOPE PURPOSES BY THE CITY OF CHULA VISTA PER RESOLUTION 2005-402.
- O INDICATES PARCEL OF LAND DESIGNATED AND SET ASIDE AS AN EASEMENT FOR DRAINAGE AND ACCESS PURPOSES BY THE CITY OF CHULA VISTA PER RESOLUTION 2005-402.
- P INDICATES PARCEL OF LAND DESIGNATED AND SET ASIDE AS AN EASEMENT FOR SEWER AND ACCESS PURPOSES BY THE CITY OF CHULA VISTA PER RESOLUTION 2005-402.
- Q INDICATES PARCEL OF LAND DESIGNATED AND SET ASIDE AS AN EASEMENT FOR LANDSCAPE BUFFER AND SIDEWALK PURPOSES BY THE CITY OF CHULA VISTA PER RESOLUTION 2005-402.



AS BUILT		UTILITY NOTE		O.W.D AS BUILT		PROJECT # OTAY WATER DISTRICT		PERMIT # P.Z.		ENGINEER, RCE #		DATE	
SIGNATURE _____ Date _____		ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.		SIGNATURE _____ Date _____		ENGINEER, RCE #		DATE		REVIEWED BY		DATE	
Printed Name _____ P.E. No. _____				Printed Name _____ P.E. No. _____		ENGINEER, RCE #		DATE		SCOTT R. VINTON		R.C.E. No. 54703	
My Registration Expires _____ Discipline _____				My Registration Expires _____ Discipline _____		REVIEWED BY		DATE		Submitted _____		Approved _____	
CONSTRUCTION RECORD		REFERENCES		BY		REVISIONS		BENCH MARK		Designed By		Checked By	
Contractor _____								DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.		Plans Prepared Under Supervision Of		By _____	
Inspector _____										Date _____		Deputy Director of Engineer	
Date Completed _____										CITY OF CHULA VISTA		ENGINEERING DEPARTMENT	
										GRADING PLANS FOR:		Drawing No. XXXXX-04	
										SDG&E SALT CREEK SUBSTATION		W.O. No. XX-XXXX	
										EASEMENTS AND ENCUMBRANCES			





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AS BUILT		UTILITY NOTE		O.W.D AS BUILT		PROJECT # OTAY WATER DISTRICT	
SIGNATURE _____ Date _____		ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.		SIGNATURE _____ Date _____		PERMIT # _____ P.Z. _____	
Printed Name _____ P.E. No. _____				Printed Name _____ P.E. No. _____		ENGINEER, RCE # _____ DATE _____	
My Registration Expires _____ Discipline _____				My Registration Expires _____ Discipline _____		REVIEWED BY _____ DATE _____	
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS0995 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN
Inspector _____							Vertical AS SHOWN
Date Completed _____							AS SHOWN

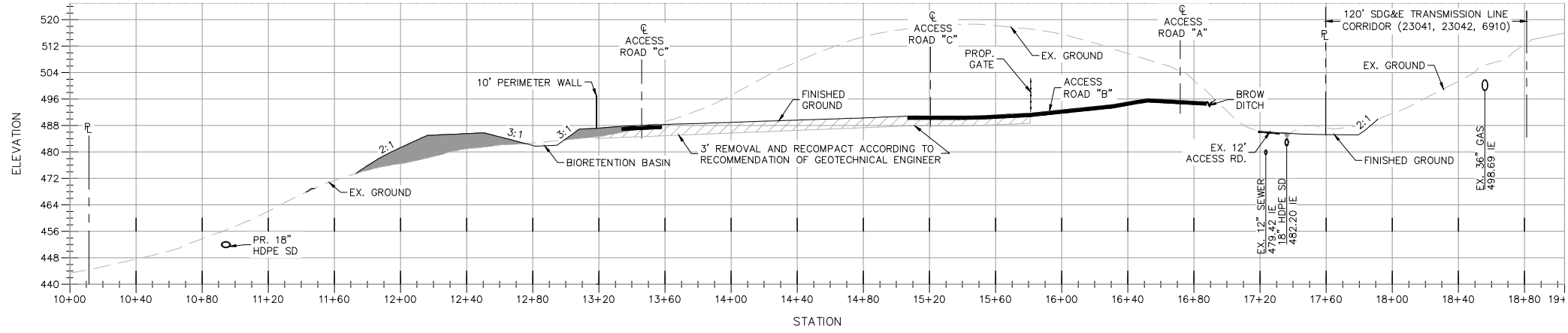


Submitted By _____	Approved By _____	CITY OF CHULA VISTA ENGINEERING DEPARTMENT	Drawing No. XXXXX-05
Office _____	Deputy Director of Engineer _____	GRADING PLANS FOR: SDG&E SALT CREEK SUBSTATION KEY MAP AND SECTIONS	W.O. No. XX-XXXX

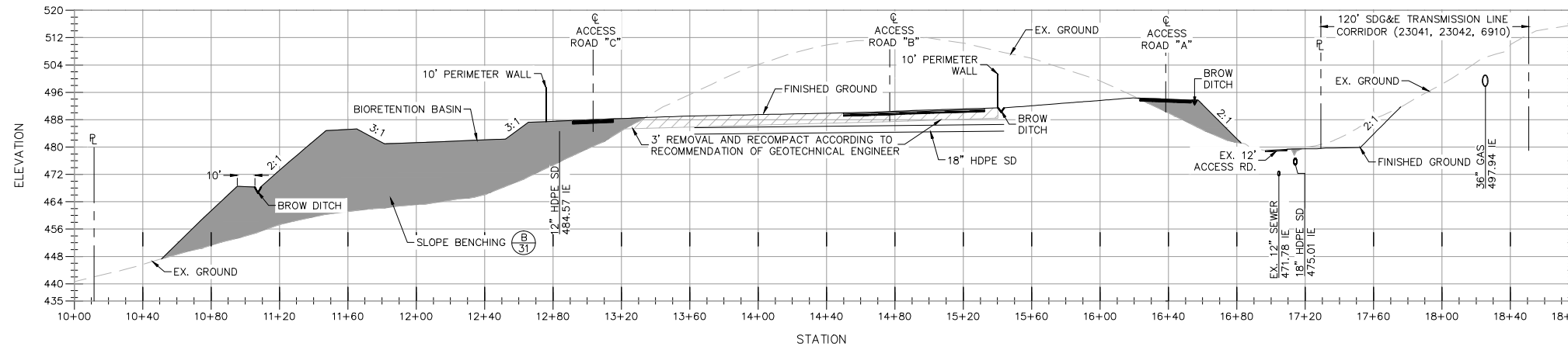


PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX

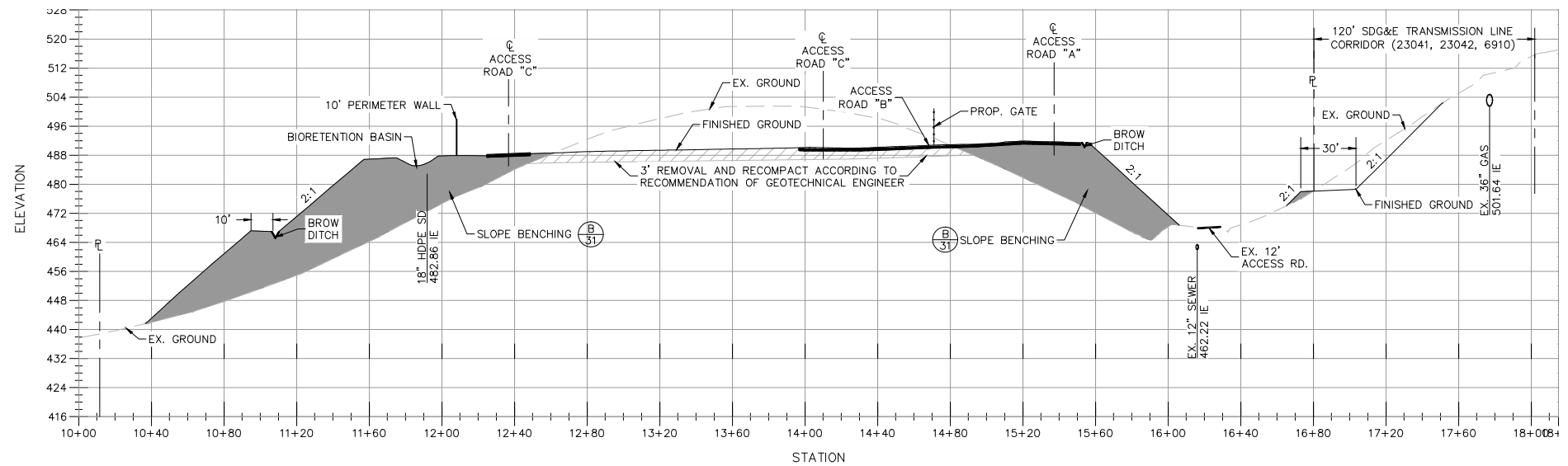
SECTION A-A
SCALE: 1"=40'(H)
1"=8'(V)



SECTION B-B
SCALE: 1"=40'(H)
1"=8'(V)



SECTION C-C
SCALE: 1"=40'(H)
1"=8'(V)



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AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		



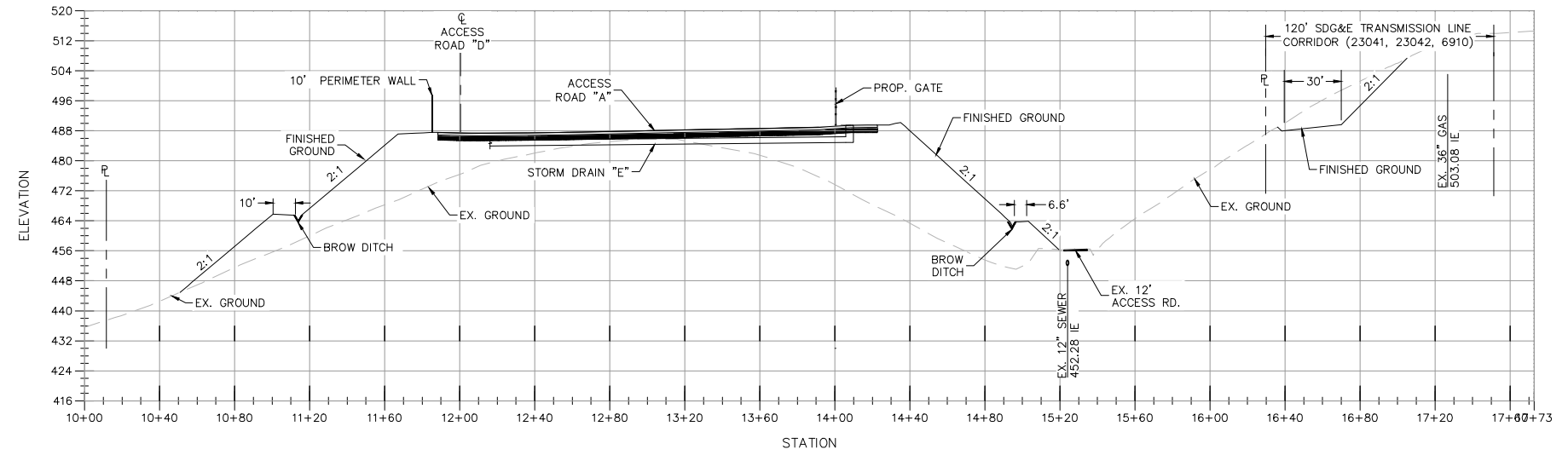
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Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Plans Prepared Under Supervision Of Date SCOTT R. VINTON	R.C.E. No. 54703			By _____ Deputy Director of Engineer		SDG&E SALT CREEK SUBSTATION SECTIONS	XXXXX-06

2/17/15

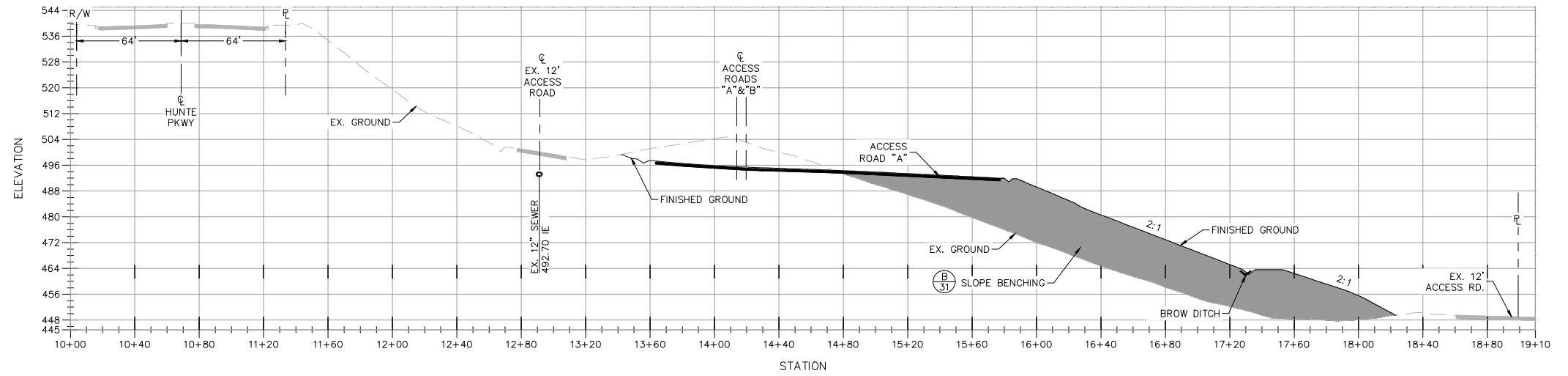


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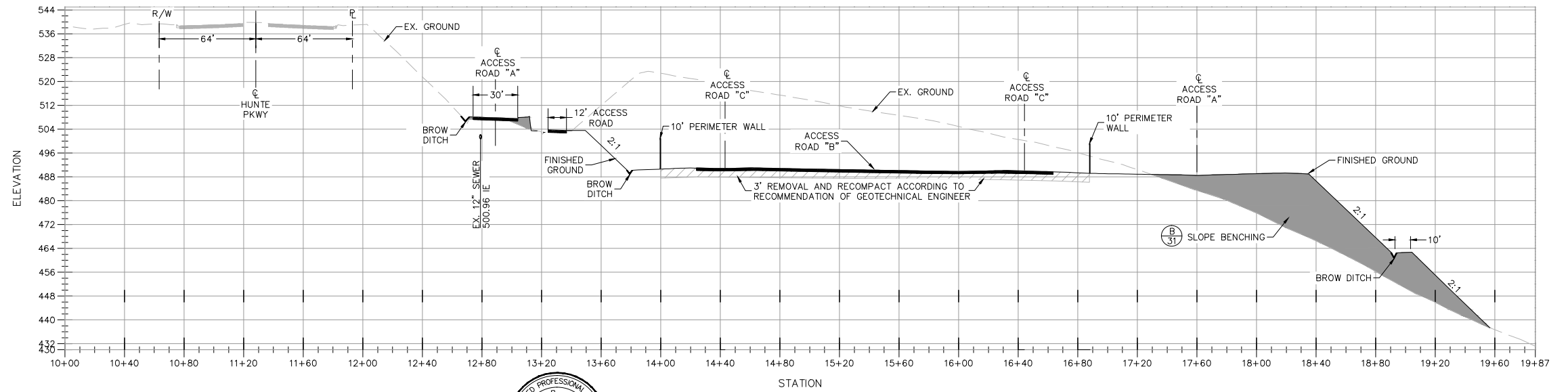
SECTION D-D
SCALE: 1"=40'(H)
1"=8 (V)



SECTION E-E
SCALE: 1"=40'(H)
1"=8 (V)



SECTION F-F
SCALE: 1"=40'(H)
1"=8 (V)



AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		
CONSTRUCTION RECORD			

Contractor _____	REFERENCES	BY	REVISIONS	Date	App'd
Inspector _____					
Date Completed _____					

BENCH MARK	
DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	
SCALE	Horizontal AS SHOWN
	Vertical AS SHOWN

Designed By	Drawn By	Checked By
Planned Under Supervision Of	Date	R.C.E. No. 54703
SCOTT R. VINTON		

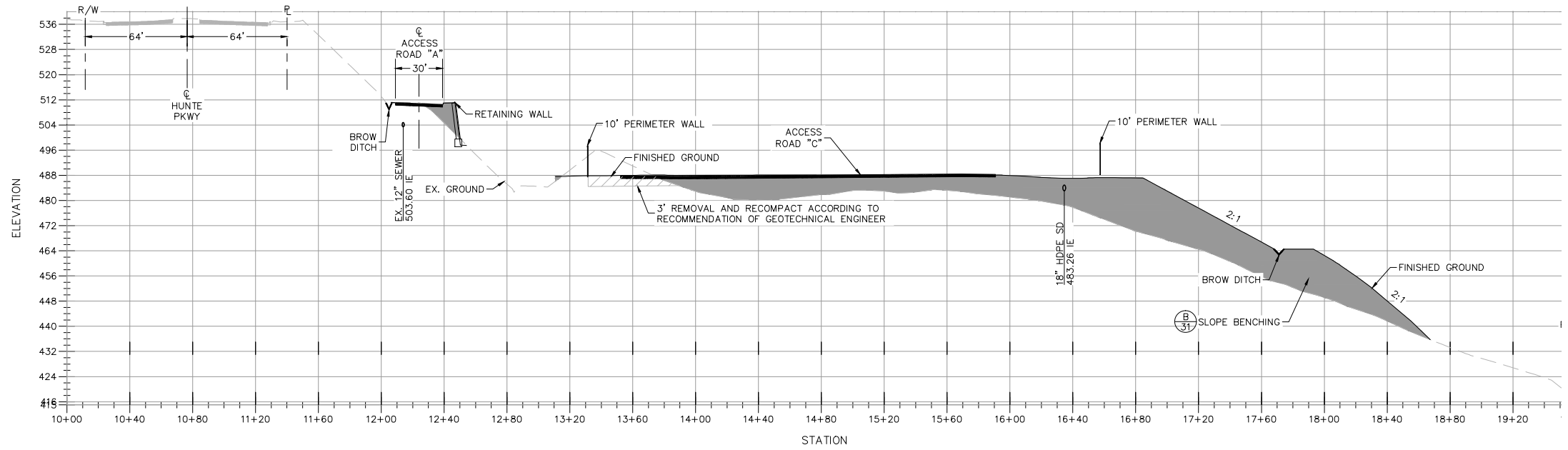
Submitted	Approved
By _____	By _____
Office _____	Deputy Director of Engineer

CITY OF CHULA VISTA		ENGINEERING DEPARTMENT
GRADING PLANS FOR:		
SDG&E SALT CREEK SUBSTATION		
SECTIONS		

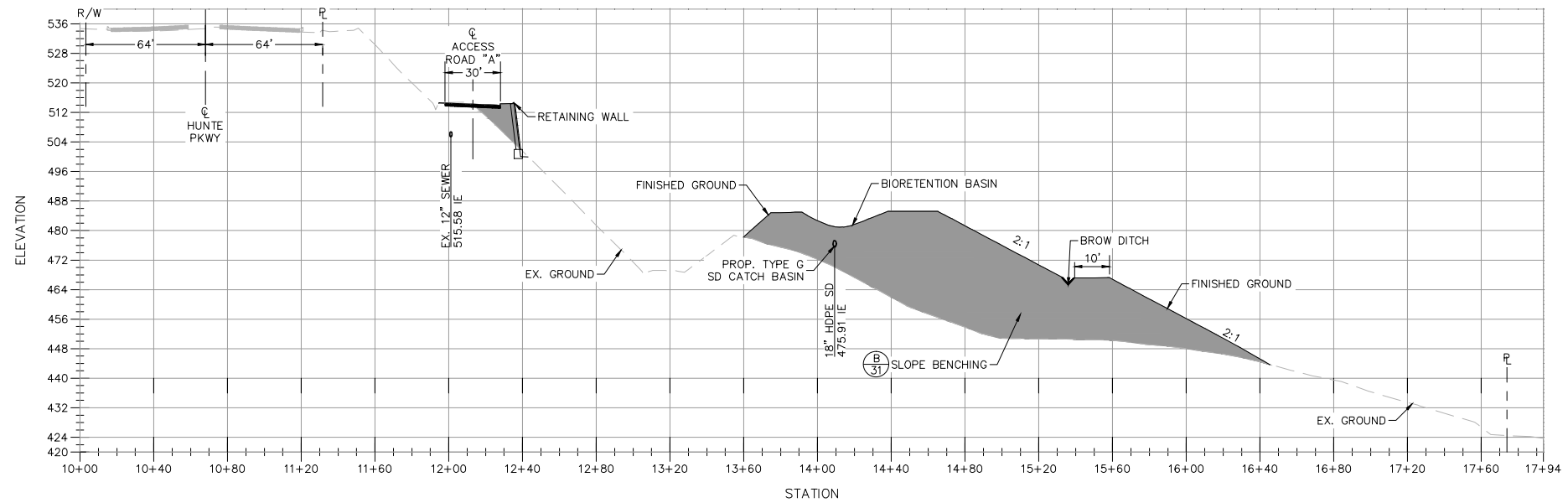
Drawing No.	XXXXX-07
W.O. No.	XX-XXXX

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SECTION G-G
SCALE: 1"=40'(H)
1"=8'(V)



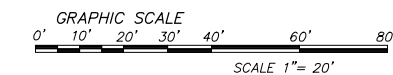
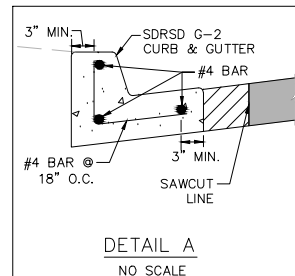
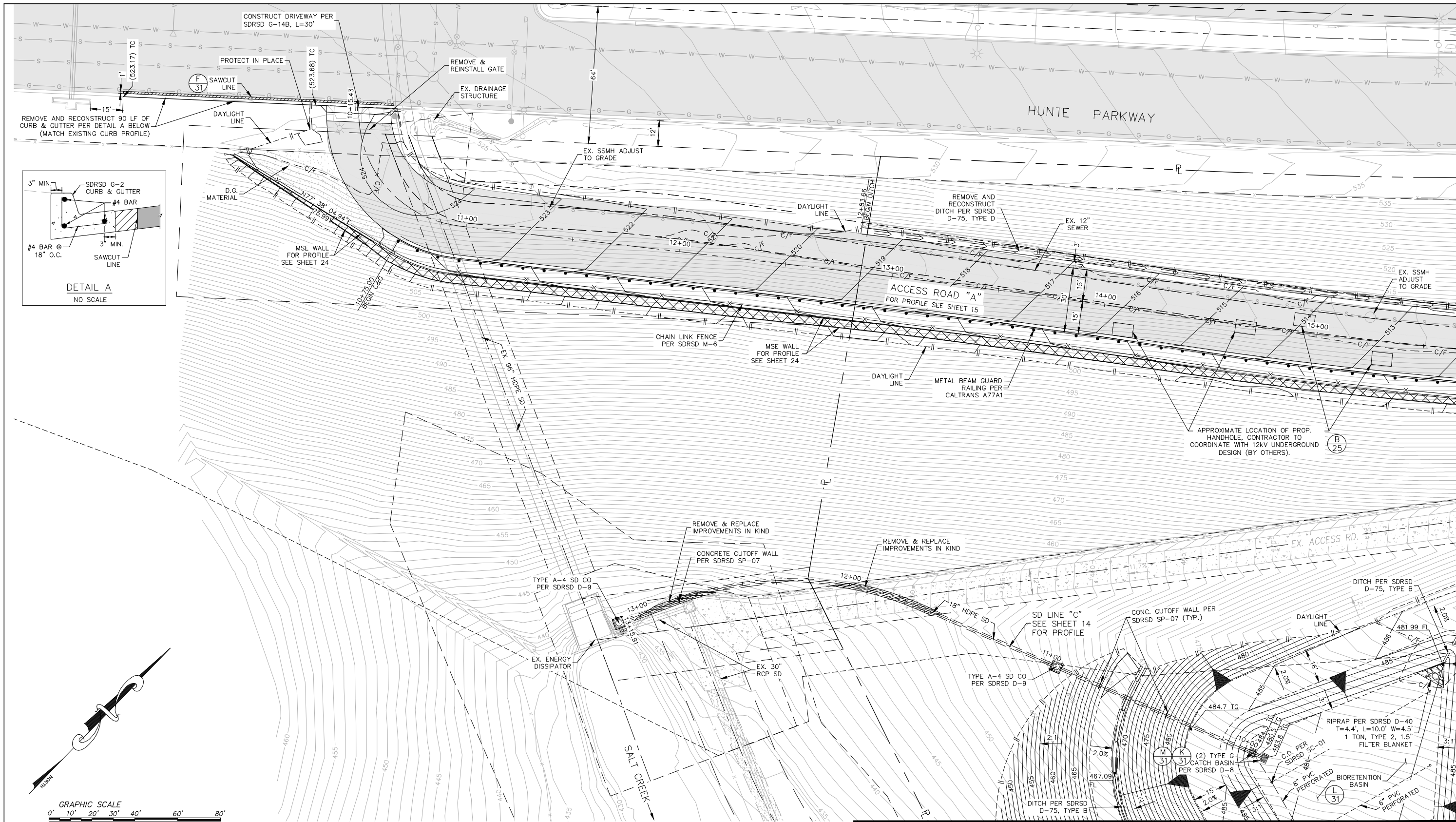
SECTION H-H
SCALE: 1"=40'(H)
1"=8'(V)



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AS BUILT		UTILITY NOTE	
Contractor	Date	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Inspector	P.E. No.		
Printed Name	Discipline		
My Registration Expires			

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal 1"=40' Vertical 1"=20'	Planned Under Supervision Of					By Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION		XXXXX-08
Inspector								SCOTT R. VINTON								W.O. No. XX-XXXX
Date Completed																O.W.D. NO. XXXX



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AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS0995 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal 1"=20' Vertical NONE	Plans Prepared Under Supervision Of				By _____	Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION		XXXXX-09
Inspector _____								SCOTT R. VINTON	R.C.E. No. 54703		Office _____				W.O. No. XX-XXXX	
Date Completed _____															PRELIMINARY NOT FOR CONSTRUCTION	



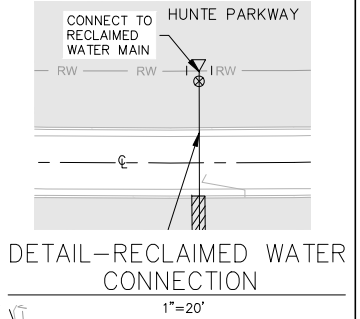
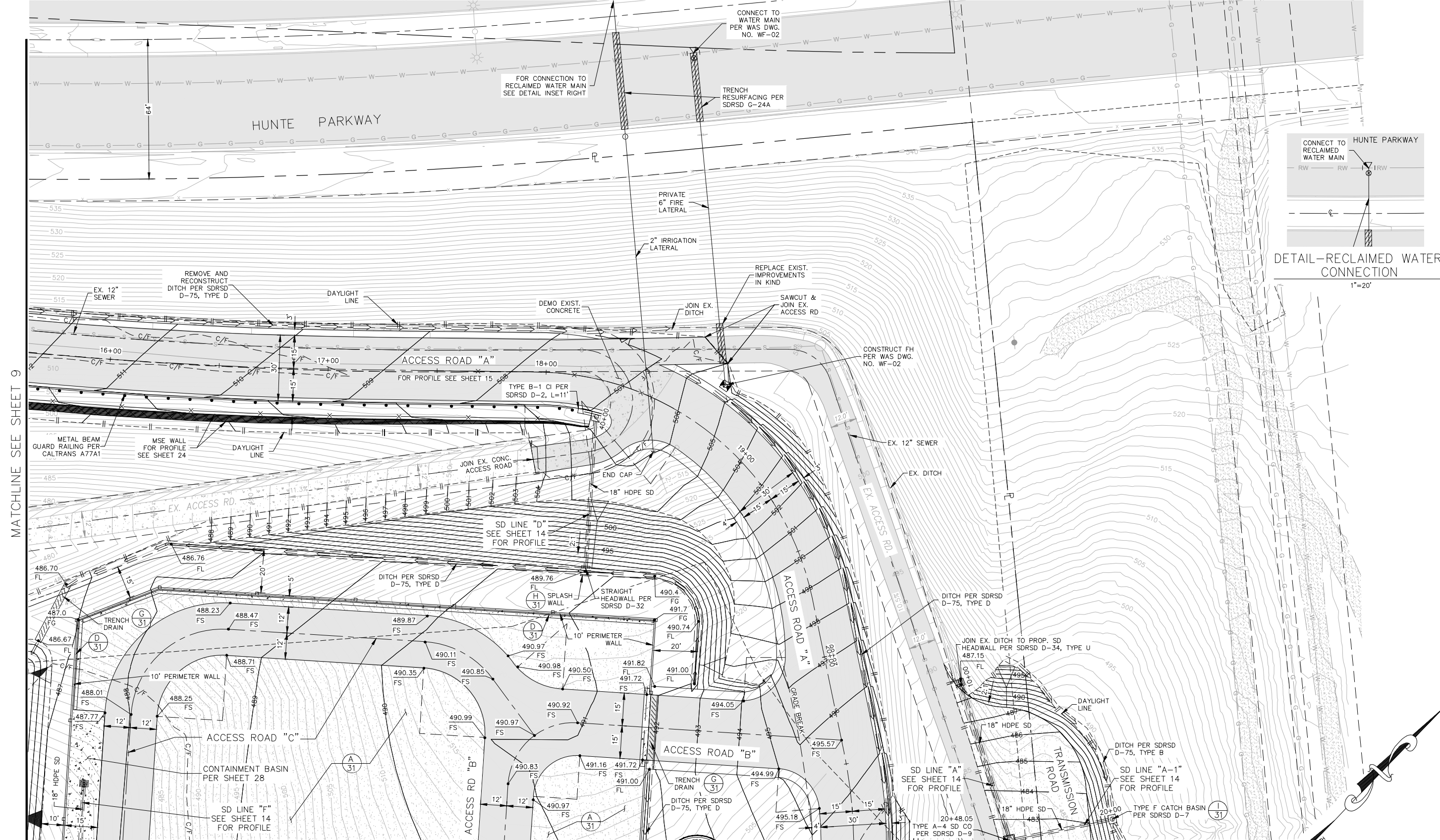
CITY OF CHULA VISTA ENGINEERING DEPARTMENT
 GRADING PLANS FOR:
SDG&E SALT CREEK SUBSTATION
 GRADING PLAN
 Drawing No. XXXXX-09
 W.O. No. XX-XXXX

PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX

2/17/15

MATCHLINE SEE SHEET 10

MATCHLINE SEE SHEET 11



MATCHLINE SEE SHEET 9

MATCHLINE SEE SHEET 11

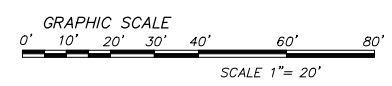
MATCHLINE SEE SHEET 12

MATCHLINE SEE SHEET 13

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AS BUILT	UTILITY NOTE	O.W.D AS BUILT
SIGNATURE _____ Date _____ P.E. No. _____ Printed Name _____ My Registration Expires _____ Discipline _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	SIGNATURE _____ Date _____ P.E. No. _____ Printed Name _____ My Registration Expires _____ Discipline _____

PROJECT # _____ OTAY WATER DISTRICT PERMIT # _____ P.Z. _____ ENGINEER, RCE # _____ DATE _____ REVIEWED BY _____ DATE _____	
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS
Contractor _____ Inspector _____ Date Completed _____			

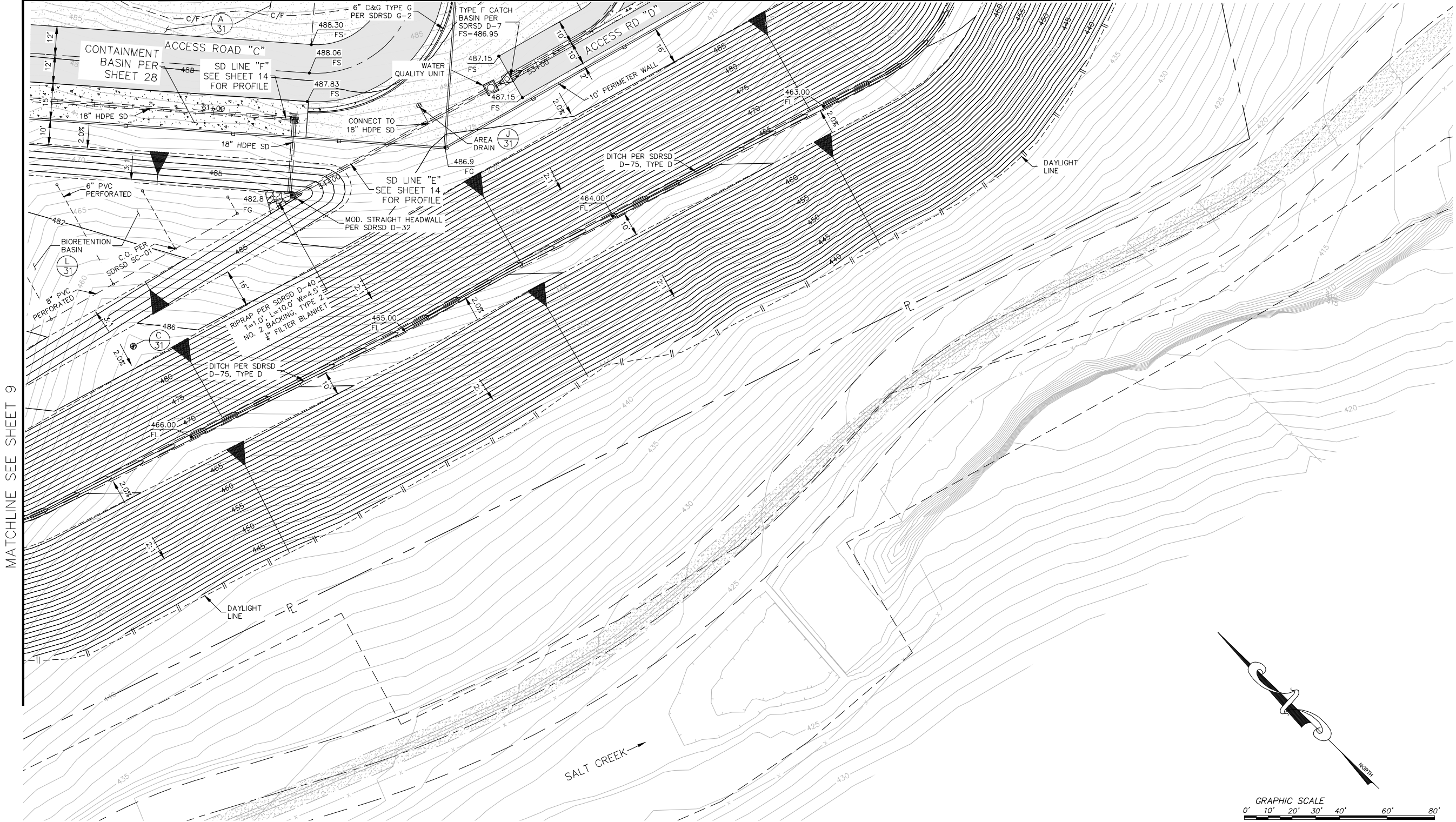
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SCALE	Designed By	Drawn By	Checked By
Horizontal 1"=20' Vertical NONE	Scott R. Vinton		

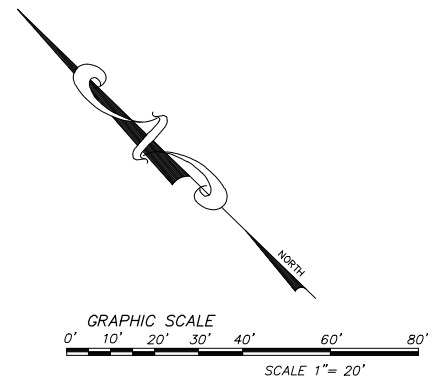
Submitted	Approved
By _____	By _____ Deputy Director of Engineer

CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.
GRADING PLANS FOR:	SDG&E SALT CREEK SUBSTATION	XXXXX-10
	GRADING PLAN	W.O. No. XX-XXXX

MATCHLINE SEE SHEET 12



MATCHLINE SEE SHEET 9



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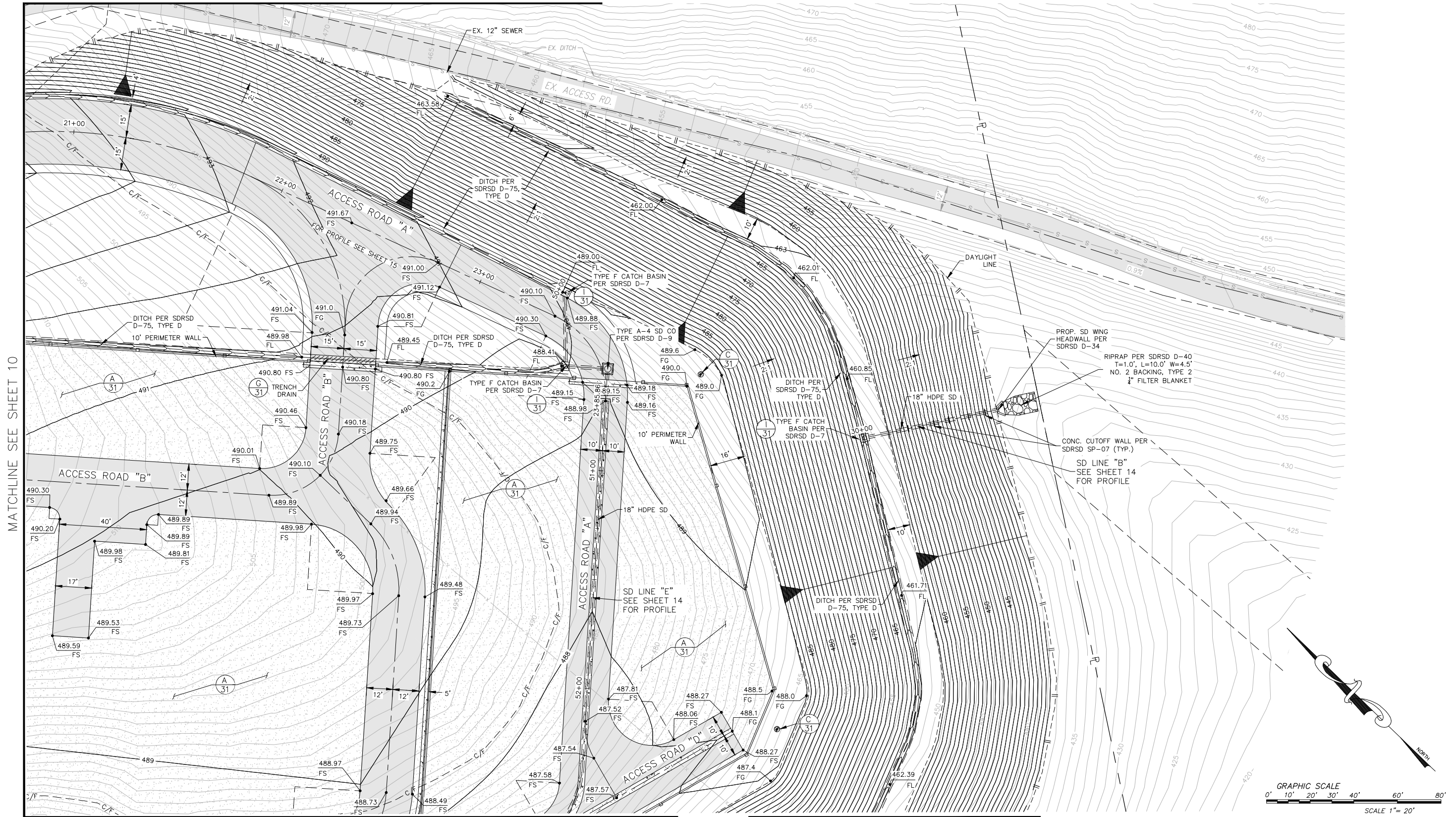
AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		



CONSTRUCTION RECORD		REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____	Inspector _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal 1"=20' Vertical NONE	Scott R. Vinton	Scott R. Vinton	Scott R. Vinton			By _____ Deputy Director of Engineer	GRADING PLANS FOR: SDG&E SALT CREEK SUBSTATION GRADING PLAN		XXXXX-11
Date Completed _____																	W.O. No. XX-XXXX

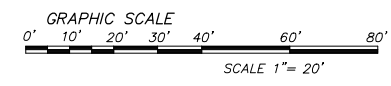
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MATCHLINE SEE SHEET 13



MATCHLINE SEE SHEET 10

MATCHLINE SEE SHEET 11



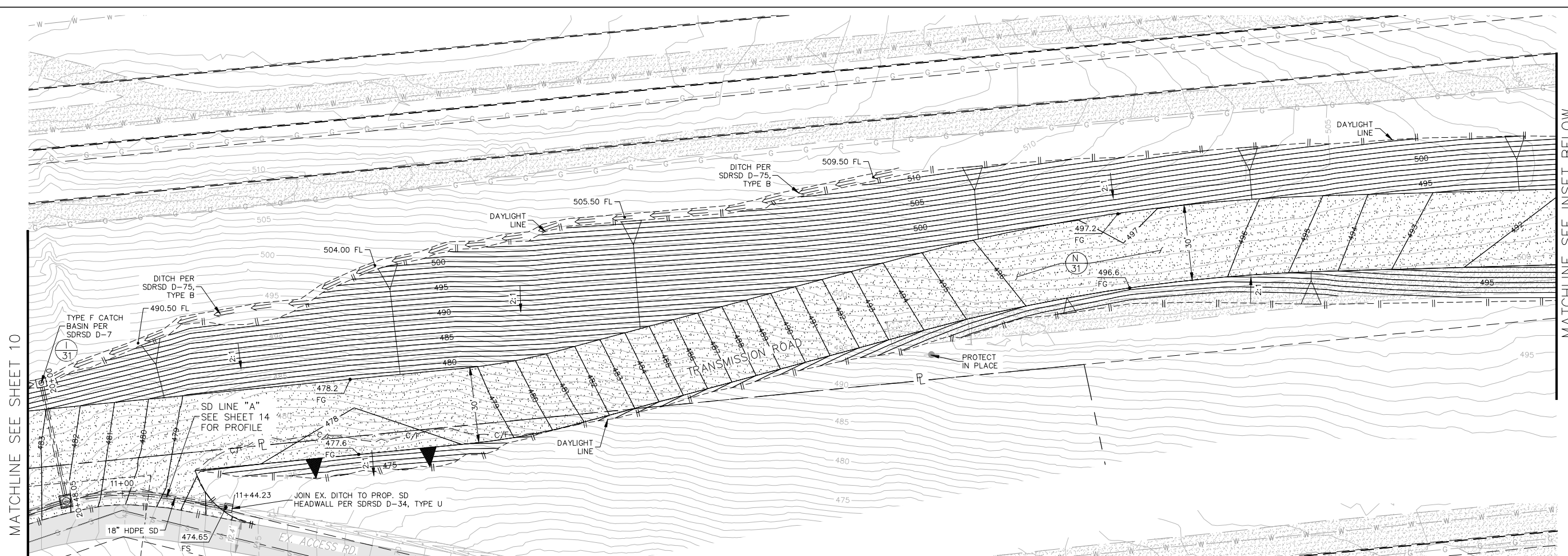
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AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		



CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS0905 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal 1"=20' Vertical NONE	Plans Prepared Under Supervision Of					By _____	SDG&E SALT CREEK SUBSTATION		XXXX-12
Inspector _____								SCOTT R. VINTON	R.C.E. No. 54703			Deputy Director of Engineer	GRADING PLANS FOR:		W.O. No. XX-XXXX	
Date Completed _____																

PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX

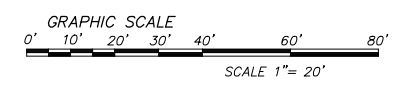
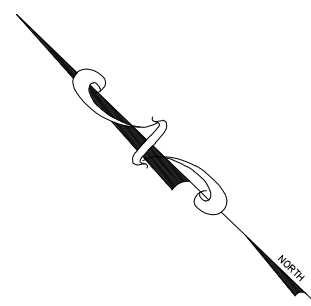
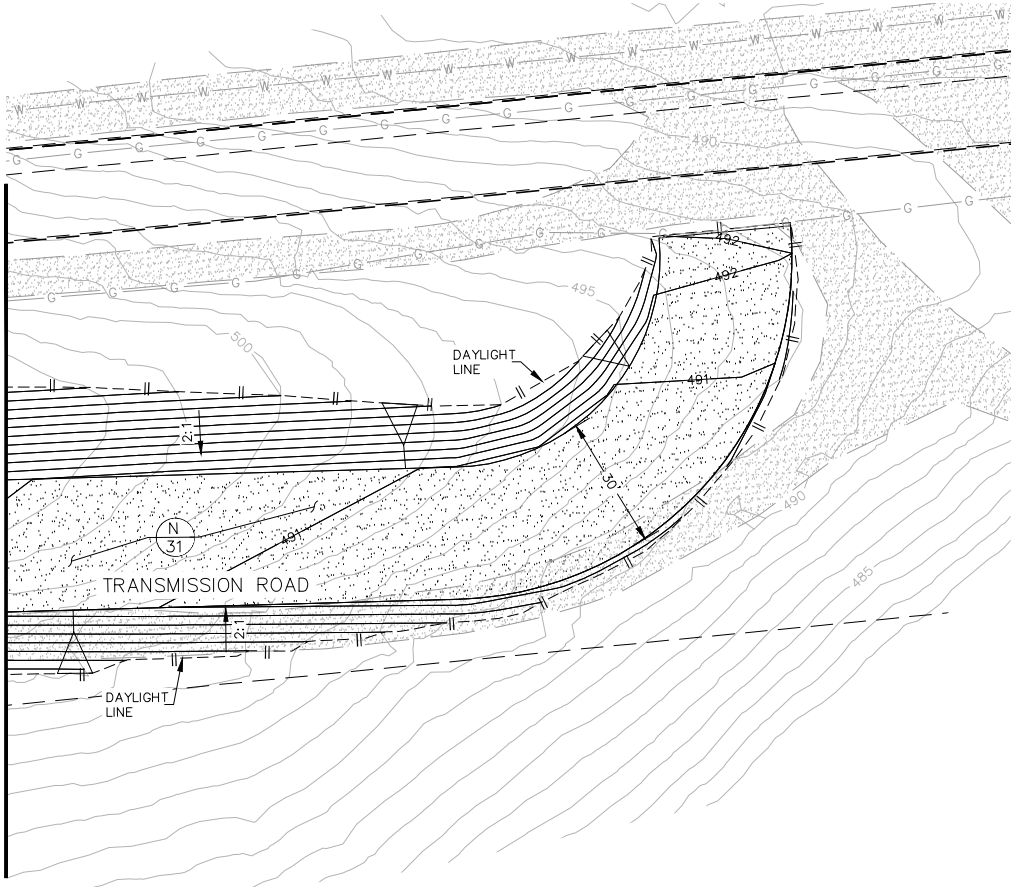


MATCHLINE SEE SHEET 10

MATCHLINE SEE INSET BELOW

MATCHLINE SEE SHEET 12

MATCHLINE SEE THIS SHEET UPPER RIGHT



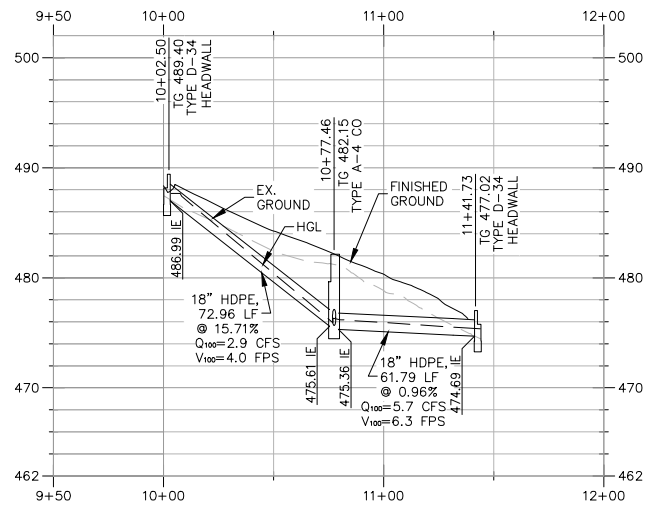
N:\SDG&E\66907\CADD\CIVIL\13 SC-S-902.4

AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

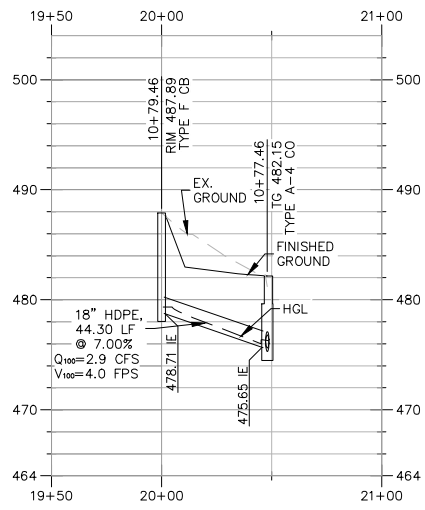
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Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal 1"=20' Vertical NONE	Plans Prepared Under Supervision Of	Date			By _____	By _____	GRADING PLANS FOR:		XXXXX-13
Inspector _____								SCOTT R. VINTON	R.C.E. No. 54703		Office	Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION		W.O. No. XX-XXXX	
Date Completed _____													GRADING PLAN		O.W.D. NO. XXXX	



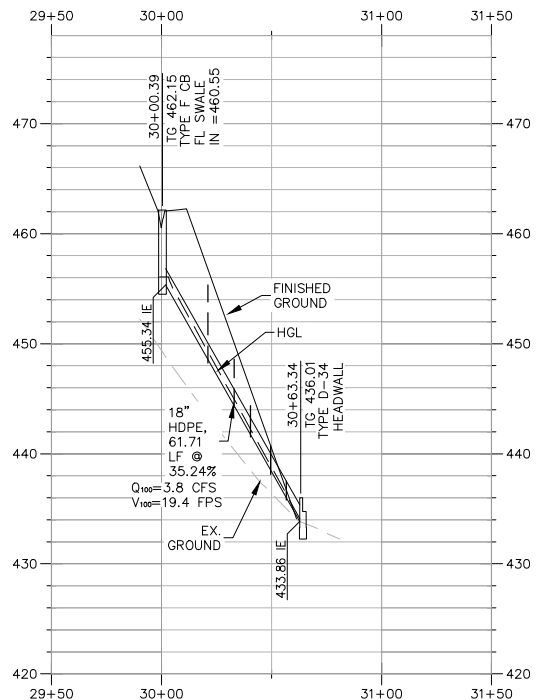
PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX



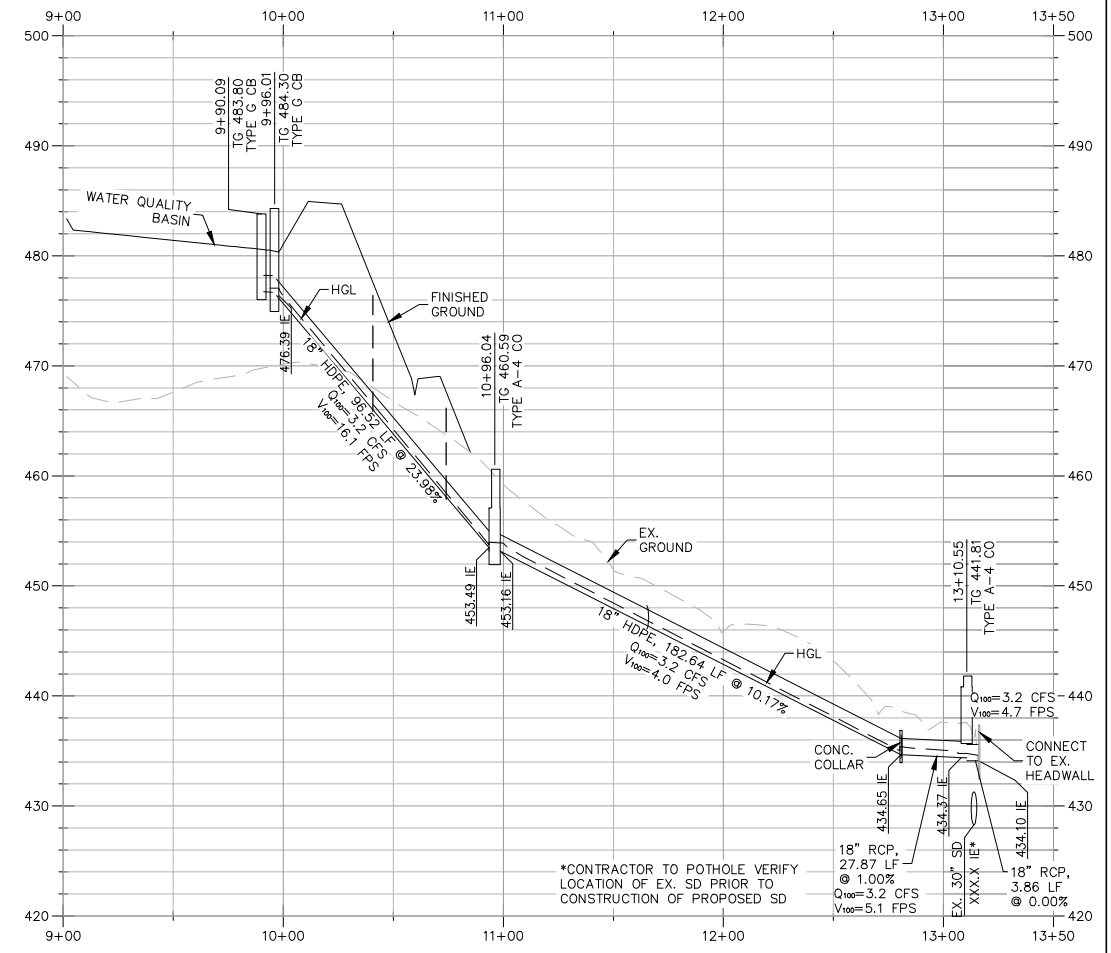
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SCALE: 1"=40'(H)
1"=8'(V)



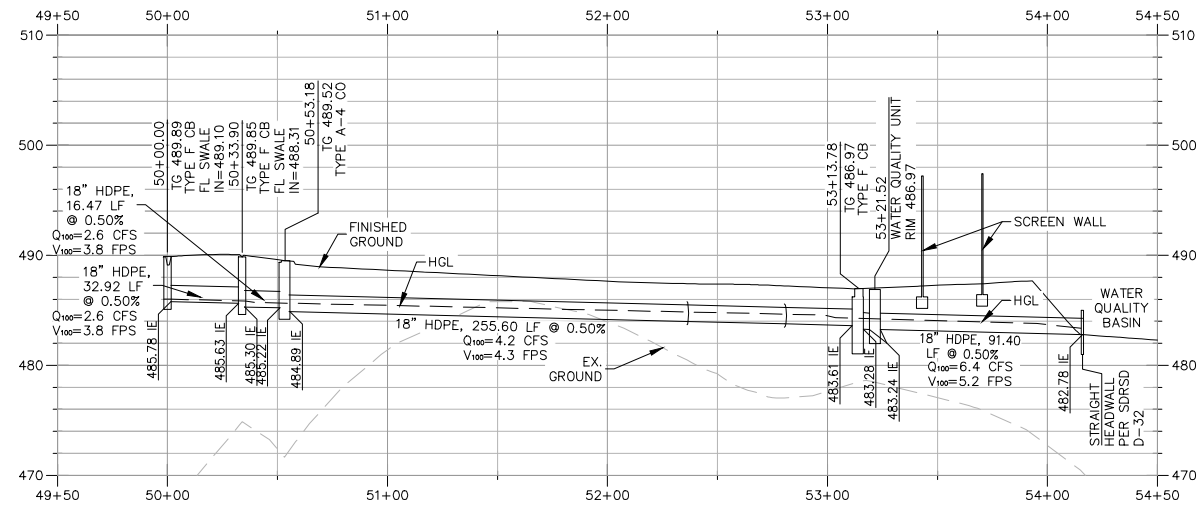
SD LINE "A-1"
SCALE: 1"=40'(H)
1"=8'(V)



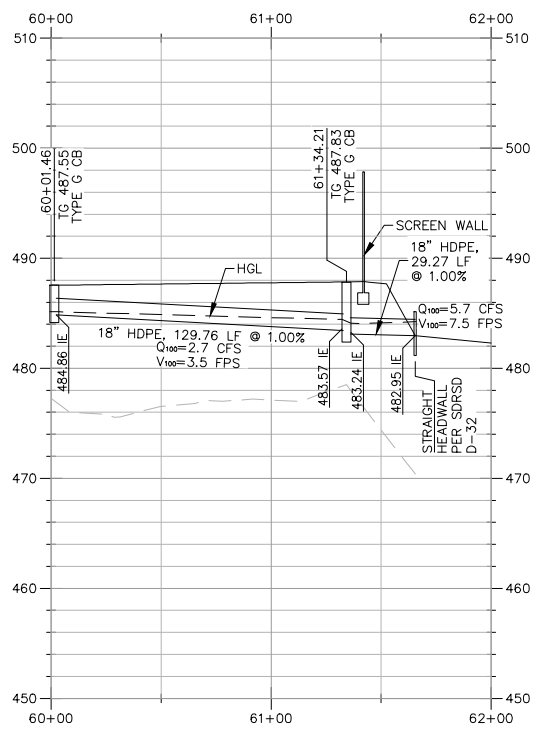
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1"=8'(V)



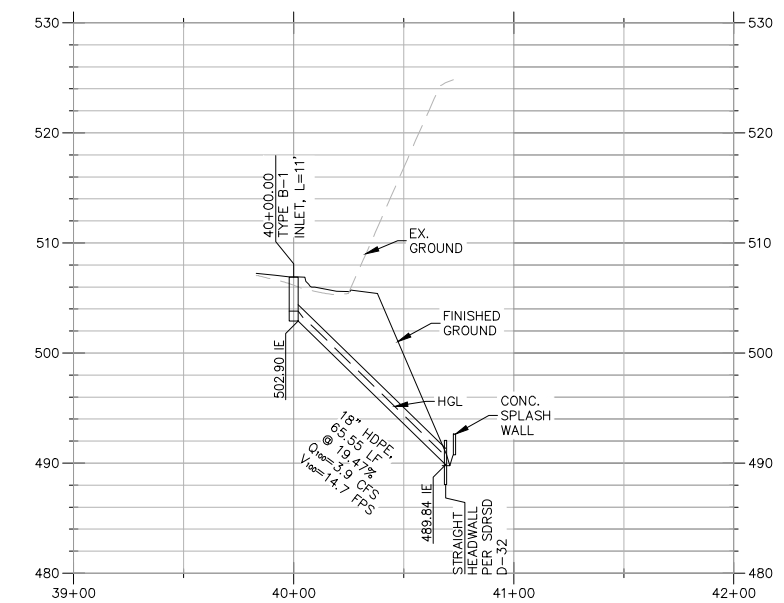
SD LINE "C"
SCALE: 1"=40'(H)
1"=8'(V)



SD LINE "E"
SCALE: 1"=40'(H)
1"=8'(V)



SD LINE "F"
SCALE: 1"=40'(H)
1"=8'(V)



SD LINE "D"
SCALE: 1"=40'(H)
1"=8'(V)

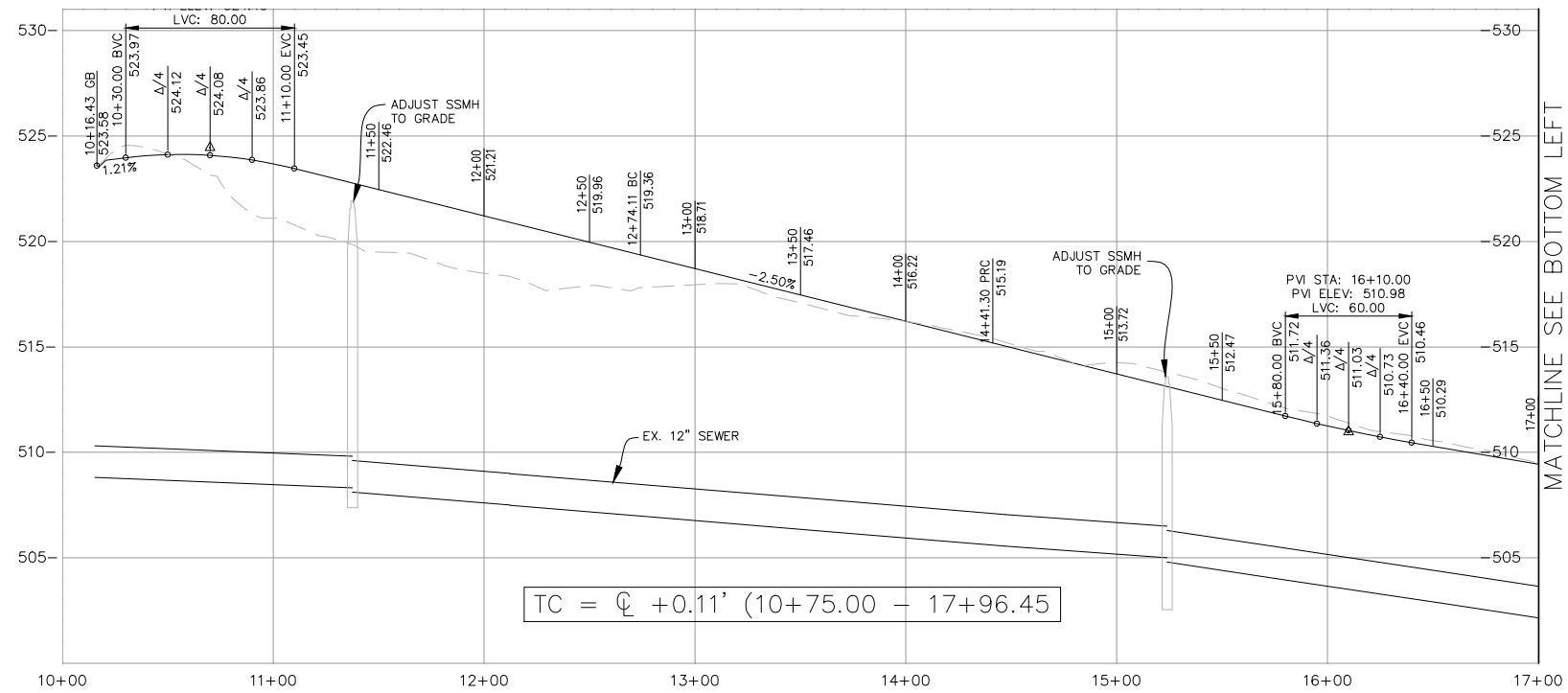


AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

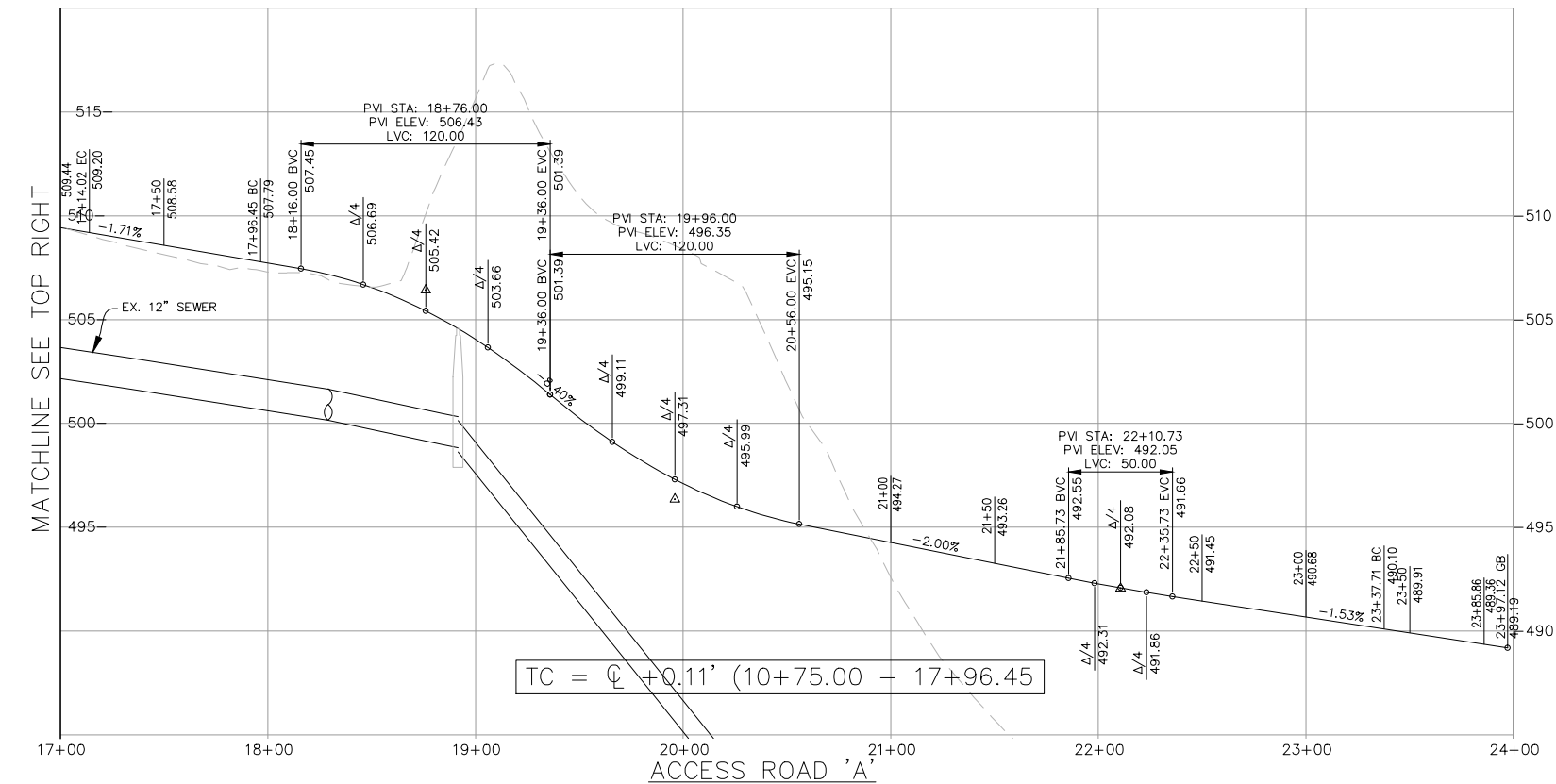
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal 1"=40' Vertical 1"=8'	Scott R. Vinton					By _____ Deputy Director of Engineer	GRADING PLANS FOR: SDG&E SALT CREEK SUBSTATION STORM DRAIN PROFILES	XXXXX-14



N:\SDG&E\9007\CADD\CIVIL\14 SC-5-903



$$TC = \text{C} + 0.11' (10+75.00 - 17+96.45)$$



$$TC = \text{C} + 0.11' (10+75.00 - 17+96.45)$$

ACCESS ROAD 'A'
 SCALE: 1"=40'(H)
 1"=8 (V)



AS BUILT		UTILITY NOTE	
Contractor	Date	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Inspector	P.E. No.		
Date Completed	Discipline		

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved
						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal 1"=40' Vertical 1"=8'	Scott R. Vinton	Scott R. Vinton			

CITY OF CHULA VISTA		ENGINEERING DEPARTMENT	Drawing No.
GRADING PLANS FOR:			XXXXX-15
SDG&E SALT CREEK SUBSTATION			W.O. No. XX-XXXX
ACCESS ROAD PROFILE			



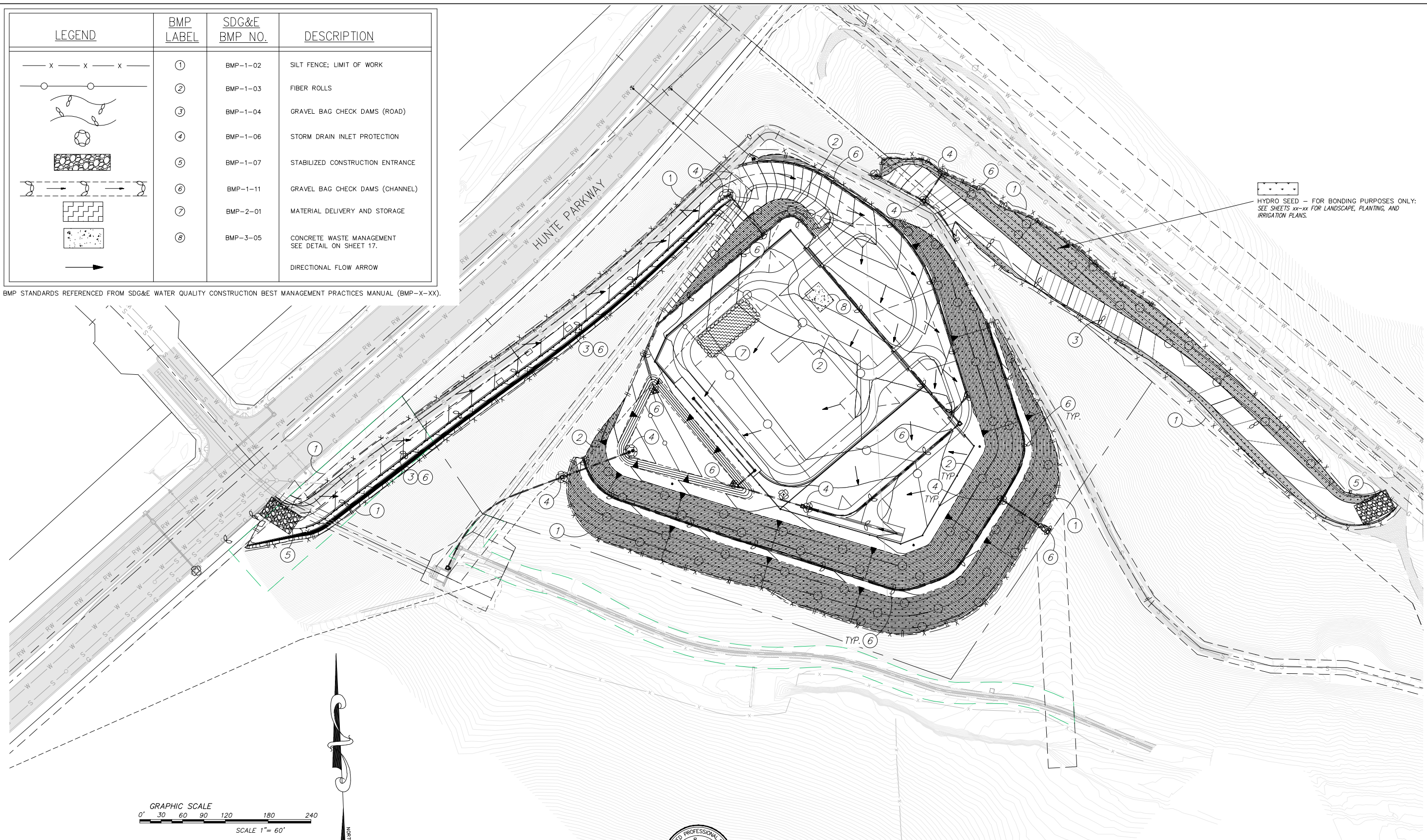
PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX

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2/17/15

LEGEND	BMP LABEL	SDG&E BMP NO.	DESCRIPTION
	①	BMP-1-02	SILT FENCE; LIMIT OF WORK
	②	BMP-1-03	FIBER ROLLS
	③	BMP-1-04	GRAVEL BAG CHECK DAMS (ROAD)
	④	BMP-1-06	STORM DRAIN INLET PROTECTION
	⑤	BMP-1-07	STABILIZED CONSTRUCTION ENTRANCE
	⑥	BMP-1-11	GRAVEL BAG CHECK DAMS (CHANNEL)
	⑦	BMP-2-01	MATERIAL DELIVERY AND STORAGE
	⑧	BMP-3-05	CONCRETE WASTE MANAGEMENT SEE DETAIL ON SHEET 17.
			DIRECTIONAL FLOW ARROW

BMP STANDARDS REFERENCED FROM SDG&E WATER QUALITY CONSTRUCTION BEST MANAGEMENT PRACTICES MANUAL (BMP-X-XX).



GRAPHIC SCALE
0' 30 60 90 120 180 240
SCALE 1" = 60'



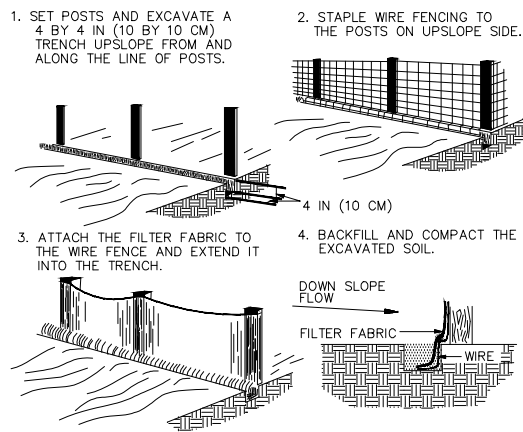
AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		
CONSTRUCTION RECORD			

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS0905 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Planned Under Supervision Of				By _____	By _____ Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION		XXXXX-16
Inspector _____								SCOTT R. VINTON					EROSION CONTROL PLAN		W.O. No. XX-XXXX	
Date Completed _____															O.W.D. NO. XXXX	

PRELIMINARY NOT FOR CONSTRUCTION

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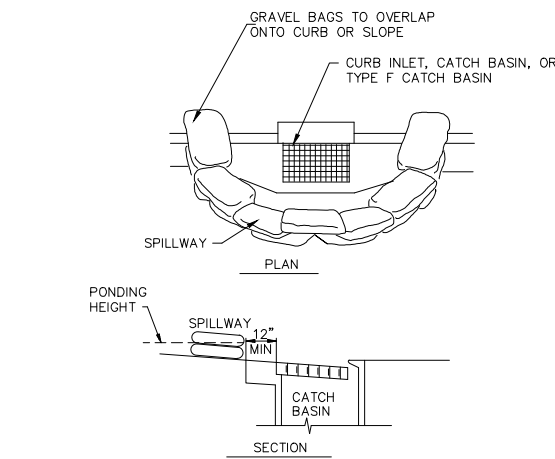
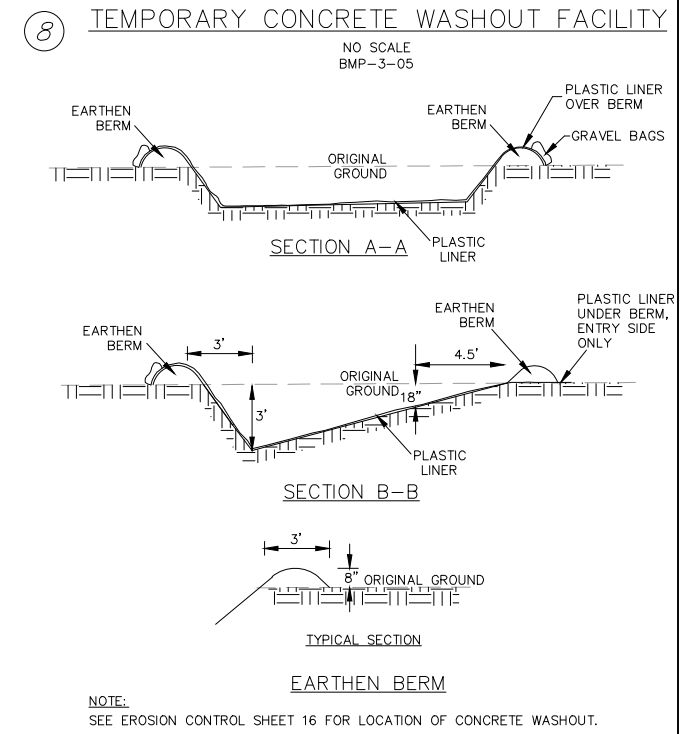
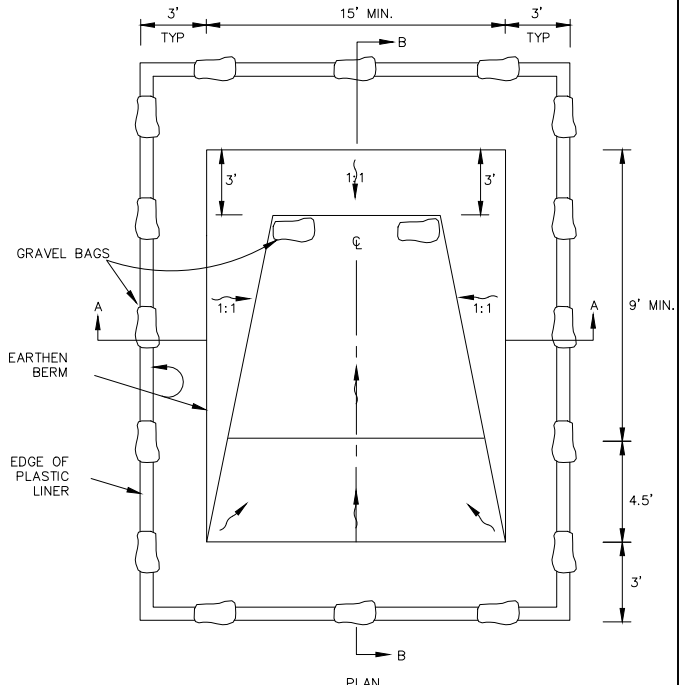
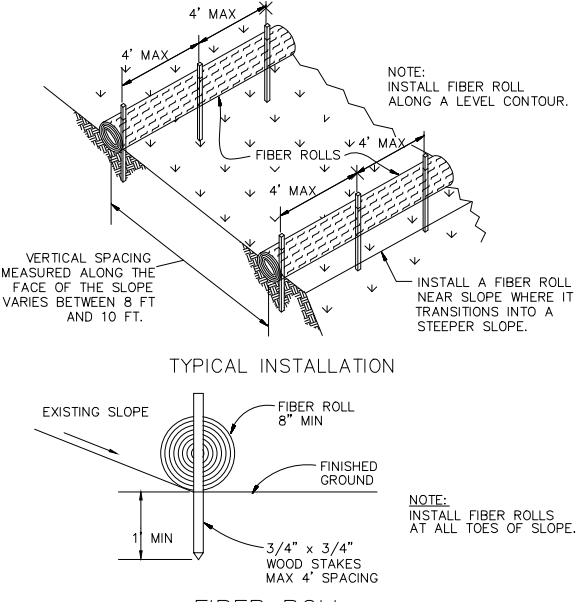
2/17/15



NOTES

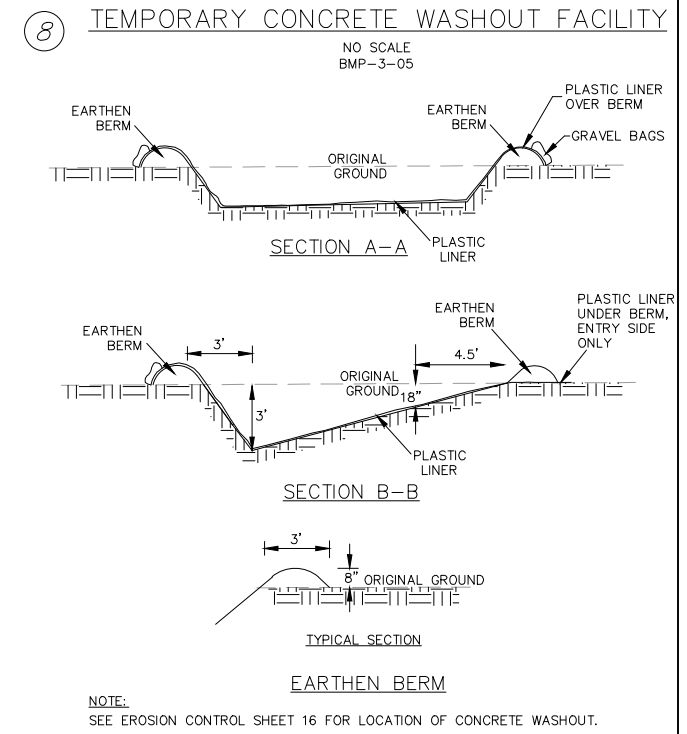
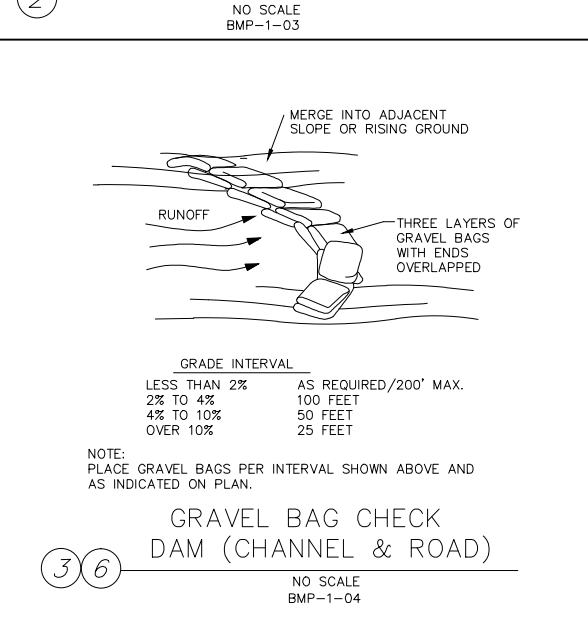
- SILT FENCE TO BE LOCATED WITHIN 5 FEET OF TOP OR TOE OF SLOPE WHERE APPLICABLE.
- SILT FENCE WILL TERMINATE 1 FOOT ON EITHER SIDE OF RIP RAP ENERGY DISSIPATORS.

SILT FENCE DETAIL
NO SCALE
BMP-1-02



NOTES

- LEAVE A GAP OF ONE BAG IN THE MIDDLE OF THE TOP ROW OF BAGS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN CURB HEIGHT AND SUFFICIENT IN SIZE TO PASS FLOWS FROM SEVERE STORM EVENT TO MINIMIZE THE SPACE BETWEEN BAGS.
- INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE HALF OF THE FILTER DEPTH HAS BEEN FILLED.
- USE A SILT SOCK OR SILT BAG WHEN INLET IS ADJACENT TO AN ACTIVE TRAVEL LANE.



STANDARD DRAWINGS

- SAN DIEGO GAS AND ELECTRIC WATER QUALITY CONSTRUCTION BEST MANAGEMENT PRACTICES MANUAL (JULY 2011 EDITION).
- CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK.



EMERGENCY EROSION CONTROL MEASURE NOTES

- ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE ACCESS ROADS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE SDG&E REPRESENTATIVE THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
- TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
- MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
- AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1 ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE SDG&E REPRESENTATIVE. BETWEEN OCTOBER 1 AND APRIL 15, APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
- CATCH BASINS, DESILTING BASINS, AND STORM DRAINS SHALL BE INSTALLED TO THE SATISFACTION OF THE SDG&E REPRESENTATIVE.
- GRAVEL BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE SDG&E REPRESENTATIVE IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE SDG&E REPRESENTATIVE.
- THE CONTRACTOR TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF SAME BY THE SDG&E REPRESENTATIVE. THE CONTRACTOR TO REMOVE ALL SOIL INTERCEPTED BY THE SANDBAGS, CATCH BASINS, AND DESILTING BASINS, AND KEEP FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE SDG&E REPRESENTATIVE. THE CONTRACTOR SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE SDG&E REPRESENTATIVE.

EROSION CONTROL NOTES:

- THESE EROSION CONTROL PLANS SHOW PROJECT IMPROVEMENTS FOR ILLUSTRATION ONLY. SEE PROJECT IMPROVEMENT PLANS FOR IMPROVEMENT DETAILS.
- ALL HYDROSEED AND BONDED FIBER MATRIX MIXES TO BE APPROVED BY PROJECT SDG&E REPRESENTATIVE PRIOR TO INSTALLATION.

STORMWATER ADVISORY NOTES

- DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125% OF ALL SUPPLIES NEEDED FOR BMP (BEST MANAGEMENT PRACTICES) MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
- THE DISTURBED AREA SHALL NOT EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE SDG&E REPRESENTATIVE'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. THE ACTIVE GRADING AREA SHALL NOT EXCEED 8 ACRES PER DAY. ACTIVE GRADING IS DEFINED AS EARTHMOVING ACTIVITIES FOR THE PURPOSE OF MODIFYING ELEVATION AND DOES NOT INCLUDE SURFACING, EXCAVATION FOR BELOW GRADE INSTALLATIONS OR OTHER CONSTRUCTION ACTIVITIES LOCATED IN AREAS WHERE FINAL GRADE HAS BEEN ESTABLISHED. AREA THAT IS NOT ACTIVELY GRADED FOR 15 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONG-TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
- THE CONTRACTOR IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. THE BMPs (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORMWATER QUALITY. THE MAINTENANCE OF THE BMPs IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMPs MAY RESULT IN ENFORCEMENT ACTION BY THE CITY OF CHULA VISTA OR OTHERS. IF INSTALLED BMPs FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
- A NOTICE OF INTENT (NOI) WILL BE FILED WITH THE STATE WATER RESOURCE CONTROL BOARD (SWRCB) AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT No. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE WASTE DISCHARGE NUMBER ASSIGNED BY SWRCB FOR THE MASS GRADING OF THIS SITE IS [REDACTED]. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY THE CITY.

SILTATION AND SEDIMENT CONTROL MEASURES NOTES

- SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
- SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE SDG&E REPRESENTATIVE.
- SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH GRAVEL BAGS FROM TOP OF PIPE TO TOP OF DIKE.
- ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF GRAVEL BAGS WITH A TOP ELEVATION, LEVEL WITH, AND TWO GRAVEL BAGS BELOW THE GRADED SURFACE OF THE STREET. GRAVEL BAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN GRAVEL BAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT EXCEED THE FOLLOWING: (SEE DETAIL 1, THIS SHEET.)

GRADE OF THE STREET	INTERVAL
LESS THAN 2%	AS REQUIRED/200' MAX.
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET

- AFTER SEWER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
- ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
- PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET

- PROVIDE VELOCITY CHECK DAMS IN ALL PAVED STREET AREAS ACCORDING TO RECOMMENDED CRITERIA ESTABLISHED BY THE COUNTY OF SAN DIEGO. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE SDG&E REPRESENTATIVE, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS.
- PROVIDE A GRAVEL BAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM. (SEE DETAIL 2 THIS SHEET.)
- GRAVEL BAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED. PROVIDE 125% OF TOTAL NUMBER OF BAGS REQUIRED IN INITIAL INSTALLATION FOR STOCKPILE QUANTITY.
- ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM.
- PROVIDE ROCK RIP-RAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT.
- ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES; IE, SDG&E REPRESENTATIVE, CITY OF CHULA VISTA DEPARTMENT OF PUBLIC WORKS.



AS BUILT _____ Date _____
Signature _____ P.E. No. _____
Printed Name _____ Discipline _____
My Registration Expires _____

UTILITY NOTE
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Plans Prepared Under Supervision Of			By _____	By _____ Deputy Director of Engineer
Inspector _____								Date _____			Office _____	
Date Completed _____								R.C.E. No. _____				

CITY OF CHULA VISTA ENGINEERING DEPARTMENT
Grading Plans For: **SDG&E SALT CREEK SUBSTATION**
EROSION CONTROL PLAN
Drawing No. **XXXX-17**
W.O. No. XX-XXXX

ROAD - CENTERLINE table with columns: Point #, Northing, Easting. Contains 14 rows of data from point 100 to 143.

ROAD - CENTERLINE table with columns: Point #, Northing, Easting. Contains 18 rows of data from point 144 to 178.

ROAD - CENTERLINE table with columns: Point #, Northing, Easting. Contains 21 rows of data from point 179 to 201.

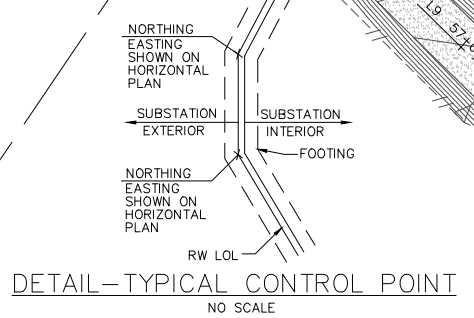
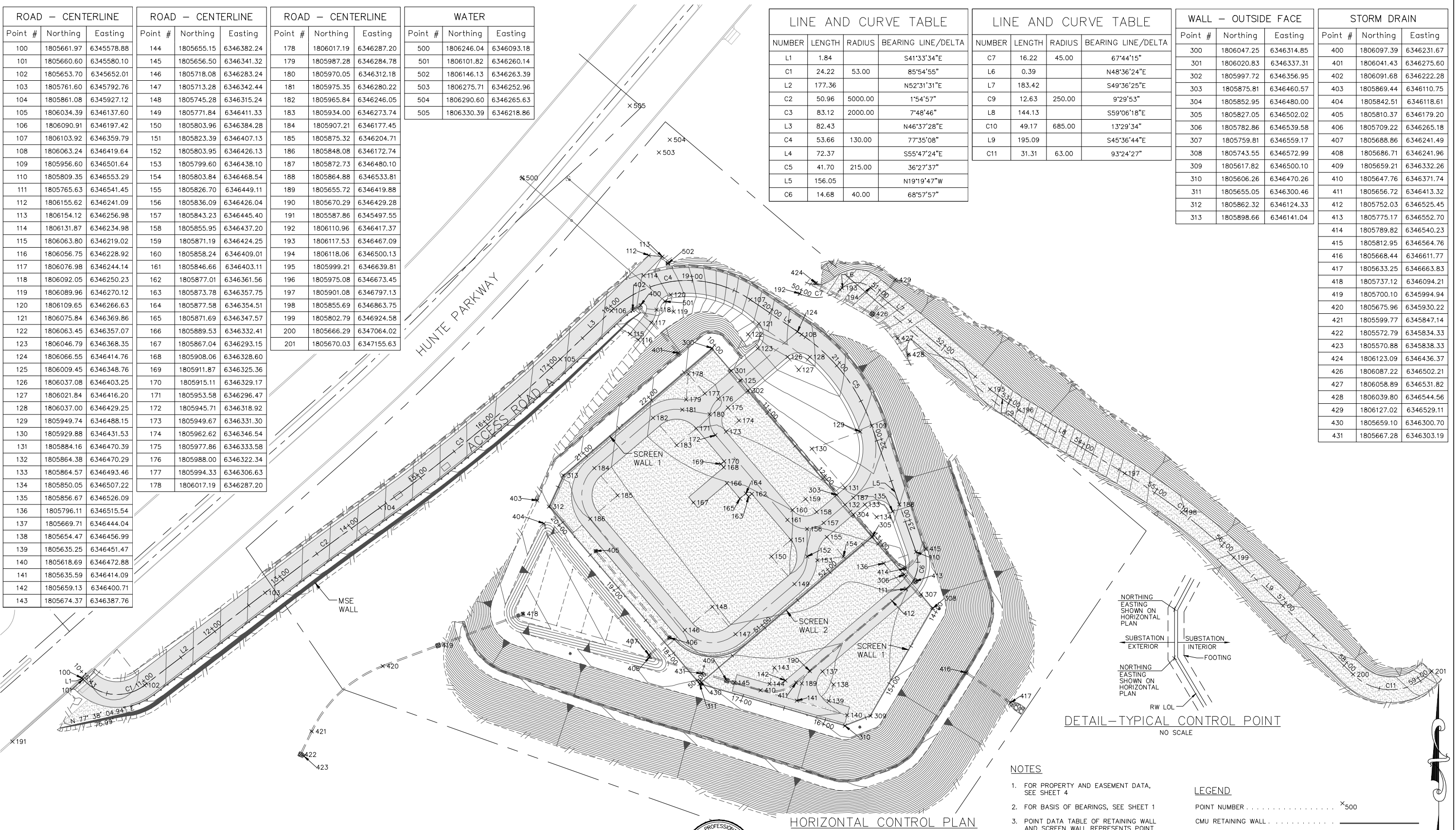
WATER table with columns: Point #, Northing, Easting. Contains 6 rows of data from point 500 to 505.

LINE AND CURVE TABLE with columns: NUMBER, LENGTH, RADIUS, BEARING LINE/Delta. Contains 6 rows of data (L1 to C6).

LINE AND CURVE TABLE with columns: NUMBER, LENGTH, RADIUS, BEARING LINE/Delta. Contains 10 rows of data (C7 to C11).

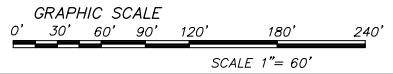
WALL - OUTSIDE FACE table with columns: Point #, Northing, Easting. Contains 14 rows of data from point 300 to 313.

STORM DRAIN table with columns: Point #, Northing, Easting. Contains 15 rows of data from point 400 to 431.



- NOTES: 1. FOR PROPERTY AND EASEMENT DATA, SEE SHEET 4. 2. FOR BASIS OF BEARINGS, SEE SHEET 1. 3. POINT DATA TABLE OF RETAINING WALL AND SCREEN WALL REPRESENTS POINT ALONG THE RETAINING WALL EXTERIOR FACE, SEE DETAIL THIS SHEET.

LEGEND: POINT NUMBER, CMU RETAINING WALL, PROPERTY LINE.



AS BUILT, UTILITY NOTE, O.W.D AS BUILT, PROJECT #, PERMIT #, ENGINEER, RCE #, DATE, DISCIPLINE.



Table with columns: CONTRACTOR, INSPECTOR, DATE COMPLETED, REFERENCES, BY, REVISIONS, BENCH MARK, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY, SUBMITTED, APPROVED, CITY OF CHULA VISTA, ENGINEERING DEPARTMENT, DRAWING NO.

STRUCTURAL NOTES

GENERAL

- 1. ALL WORK NOT DETAILED OR NOTED SHALL BE CONSTRUCTED IN ACCORDANCE WITH OTHER SIMILAR WORK SHOWN ON THE DRAWINGS AND ON TYPICAL DETAILS.
2. NO PIPES, DUCTS, OR OTHER OPENINGS SHALL BE PLACED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK.
4. THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE METHODS OF CONSTRUCTION.
5. UNLESS OTHERWISE SHOWN, LOCATIONS OF ALL CONSTRUCTION JOINTS SHALL HAVE THE APPROVAL OF THE SD&E REPRESENTATIVE.
6. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, PROFILES, SECTIONS OR DETAILS SHOWN ON THE DRAWINGS.

SOILS & FOUNDATIONS:

- 1. REFERENCES:
"UPDATE GEOTECHNICAL INVESTIGATION OF PROPOSED SD&E SALT CREEK SUBSTATION CHULA VISTA, CALIFORNIA", PREPARED BY KLEINFELDER WEST INC., DATED SEPTEMBER 8, 2014. (PROJECT #-----).
2. ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF (DEAD PLUS LIVE) (1/3 INCREASE ALLOWED FOR TRANSIENT WIND / SEISMIC LOADS).
3. NO CONCRETE OR REBAR SHALL BE PLACED IN ANY FOUNDATION UNTIL THE EXCAVATION HAS BEEN INSPECTED BY THE GEOTECHNICAL ENGINEER.
4. ALL SLEEVES THROUGH FOUNDATION WALLS AND UNDER FOOTINGS SHALL BE INSTALLED PRIOR TO FOUNDATION POUR.
5. FOUNDATIONS HAVE BEEN DESIGNED IN REFERENCE TO NOTES 1 & 2 AND ARE ASSUMED TO REST ON SUITABLE BEARING MATERIALS. THE ACTUAL ADEQUACY OF THE BEARING MATERIAL SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING REINFORCEMENT OR CASTING CONCRETE.
6. THE PROJECT GEOTECHNICAL REPORT IS TO BE CONSIDERED A PART OF THESE PLANS AND SHALL BE COMPLIED WITH BY THE CONTRACTOR.

STRUCTURAL ABBREVIATIONS

Table with 3 columns: Abbreviation, Full Name, and Notes. Includes terms like ADDL (ADDITIONAL), BC (BEGIN CURVE), BF (BOTTOM OF FOOTING), BK (BOTTOM OF KEY), CBC (CALIFORNIA BUILDING CODE), CIP (CAST IN PLACE), CLR (CLEAR), CMU (CONC MASONRY UNIT), CONC (CONCRETE), CONT (CONTINUOUS), d (BAR DIAMETER), DET (DETAIL), DIA (DIAMETER), DIM (DIMENSION), EC (END CURVE), EF (EACH FACE), EG (EXISTING GRADE), EJ (EXPANSION JOINT), EL (ELEVATION), EXIST (EXISTING), FG (FINISH GRADE), FOM (FACE OF MASONRY), FT (FOOT/FEET), FTG (FOOTING), ID (IDENTIFICATION), IN (INCH), LBS (POUNDS), LOL (LAYOUT LINE), MAX (MAXIMUM), MIN (MINIMUM), MISC (MISCELLANEOUS), MOD (MODIFIED), NTS (NOT TO SCALE), PSF (LBS/SQUARE FOOT), PSI (LBS/SQUARE INCH), R (RADIUS), REINF (REINFORCING), RW (RETAINING WALL), STA (STATION), TF (TOP OF FOOTING), TW (TOP OF WALL), TYP (TYPICAL), UN (UNLESS OTHERWISE NOTED).

CONCRETE

- 1. CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CBC, REFERENCED EDITION.
2. ALL REINFORCING BARS, ANCHOR BOLTS AND INSERTS SHALL BE WELL SECURED PRIOR TO POURING CONCRETE.
3. STRUCTURAL CONCRETE COMPRESSIVE DESIGN STRENGTH AT 28 DAYS, UNLESS NOTED OTHERWISE IN THE CONTRACT PLANS AND/OR SPECIFICATIONS SHALL BE AS FOLLOWS:
A. FOOTINGS - 4000 PSI
4. ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" CHAMFER.
5. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL CONCRETE CONSTRUCTION AS SPECIFIED BY SECTION 1701 OF THE CBC, CURRENT EDITION.

DESIGN CRITERIA

- 1. DESIGN CODES:
2013 CALIFORNIA BUILDING CODE (CBC)
2. SEISMIC
SEISMIC DESIGN CATEGORY: D
SITE CLASS: D
OCCUPANCY CATEGORY: III
SS = 0.812g
S1 = 0.315g
SDS = 0.636g
SD1 = 0.372g
3. WIND
BASIC WIND SPEED = 100 MPH (3 SECOND GUST)
EXPOSURE D
I : 1.15
DESIGN WIND PRESSURE = 63.26 PSF

REINFORCING STEEL

- 1. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING BARS (UNLESS OTHERWISE NOTED) MUST FOLLOW THE A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, A.C.I. 315 LATEST EDITION.
2. ALL REINFORCING BARS SHALL CONFORM TO THE STANDARD SPECIFICATION FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615-85: GRADE 60.
3. REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS TABULATED BELOW UNLESS OTHERWISE NOTED.
A. FOOTINGS AND SLABS CAST AGAINST EARTH 3-IN.
B. ALL ELSE 2-IN.
4. ALL DOWELS FROM FOOTINGS INTO WALLS SHALL BE THE SAME SIZE AND SPACING AS THE WALL VERTICAL REINFORCEMENT AND LAPPED WITH REINFORCEMENT UNLESS INDICATED OTHERWISE.
5. BOTTOM STEEL OF SLABS, FOOTINGS AND GRADE BEAMS SHALL BE SUPPORTED OFF OF THE EARTH OR FORMS BY PRECAST CONCRETE BLOCKS WIRE TIED TO THE REINFORCEMENT.
6. WHERE CONTINUOUS BARS ARE CALLED OUT, PROVIDE CONTACT SPLICES (AS REQUIRED) IN ACCORDANCE WITH REINFORCING STEEL NOTE NO. 7. STAGGER SPLICES OF ALL CONTINUOUS BARS.
7. LAP ALL SPLICES IN CONCRETE AS "CLASS B" SPLICES MINIMUM. WHERE LAP LENGTHS ARE NOT SHOWN ON THE PLANS, LAP AS SHOWN IN THE TABLE BELOW:

Table for REINFORCED CONCRETE LAP SPLICES. Columns: REINFORCEMENT SIZE (#5, #6), f'c = 4000 PSI AT 28 DAYS. Includes notes: TOP BARS ARE BARS WITH MORE THAN 12 IN. OF FRESH CONCRETE CAST BELOW THEM.

CONCRETE MASONRY UNITS (CMU) NOTES

- 1. ALL CMU SHALL CONFORM TO ASTM C90, GRADE N-1, NORMAL WEIGHT BLOCK WITH f'm = 1500 PSI.
2. ALL MORTAR SHALL BE AS PER CBC TYPE "S", 1800 PSI AT 28 DAYS.
3. ALL GROUT SHALL BE 2000 PSI AT 28 DAYS.
4. MASONRY UNITS NOMINAL MODULAR FACE SIZE SHALL BE 8x8x16 AND 12x8x16.
5. ALL CELLS SHALL BE FILLED SOLID WITH GROUT.
6. ALL HORIZONTAL REINFORCING BARS SHALL BE IN BOND BEAM BLOCKS.
7. ALL MASONRY WORK SHALL CONFORM TO THE CBC, CHAPTER 21, CURRENT EDITION.
8. ALL JOINTS SHALL BE TOOLED CONCAVE.
9. SPECIAL INSPECTION IS REQUIRED FOR ALL MASONRY WORK AS SPECIFIED BY SECTION 1701 OF THE CBC, CURRENT EDITION.
10. WHERE LAP LENGTHS ARE NOT SHOWN ON THE DRAWING, LAPS SHALL BE AS SHOWN IN THE TABLE BELOW:

Table for REINFORCED MASONRY LAP SPLICES. Columns: REINFORCEMENT SIZE (#5, #6, #7, #8), f'm = 1500 PSI AT 28 DAYS.

- NOTES: 1. LAP SPLICE = 72 BAR DIAMETER
2. BASIS OF DESIGN: ASD fs < .8F's

STRUCTURAL AND MISCELLANEOUS STEEL

- 1. ALL STEEL WORK SHALL BE PERFORMED ACCORDING TO AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
2. ALL STRUCTURAL STEEL ROLLED SECTIONS SHALL CONFORM TO ASTM A992. PLATES AND BARS SHALL CONFORM TO ASTM A572, GRADE 50. STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B. ALL OTHER STEEL SHALL CONFORM TO ASTM A36 AND ALL BOLTS SHALL CONFORM TO ASTM A307 UNLESS OTHERWISE NOTED.
3. ALL SHAPES, PLATES, BARS, PIPES AND TUBES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH ASTM A123. ALL BOLTS, NUTS, AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN CONFORMANCE WITH ASTM A153.
4. DAMAGE TO ALL GALVANIZED COATINGS CAUSED BY HANDLING, TRANSPORTATION, CUTTING, WELDING, OR BOLTING SHALL BE REPAIRED USING ASTM A780 ZINC RICH PAINT.
5. ALL CONNECTIONS SHALL BE DETAILED ACCORDING TO THE AISC TEXTBOOK OF STRUCTURAL DRAFTING.
6. ALL CONNECTIONS NOT DETAILED ON PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR TO DEVELOP THE STRENGTH OF THE WEAKEST MEMBER AND SHALL BE SUBMITTED TO OWNER FOR APPROVAL.
7. STEEL FABRICATOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS.
8. ALL ANCHOR BOLTS SHALL BE HEADED. HEAD DIMENSION WILL NOT COUNT TOWARD REQUIRED EMBEDMENT DEPTH.
9. ANCHOR BOLTS NOT SPECIFIED ON PLANS SHALL CONFORM TO ASTM F1554 GR. 36.
10. SPECIAL INSPECTION IS REQUIRED FOR ALL STEEL WORK AS SPECIFIED BY SECTION 1701 OF THE CBC, CURRENT EDITION.

SPECIFICATIONS

- A. SOILS AND FOUNDATIONS - CBC CHAPTER 18
1. GENERAL: 1801
2. FOUNDATION & SOILS INVESTIGATION: 1802
3. EXCAVATION, GRADING & FILL: 1803
4. FOOTINGS & FOUNDATIONS: 1805
5. SPECIAL INSPECTION: 1704, 1704.7
B. CONCRETE - CBC CHAPTER 19
1. GENERAL: 1901
2. TESTS AND MATERIALS: 1903
A. PROPORTIONS OF CONCRETE 1904, 1905
B. STRENGTH TESTS OF CONCRETE 1905.6
3. DURABILITY REQUIREMENTS: 1904
4. CONCRETE QUALITY, MIXING & PLACING: 1905
5. FORMWORK, EMBEDDED PIPES & CONSTRUCTION JOINTS: 1906
6. DETAILS OF REINFORCEMENT: 1907
7. SPECIAL INSPECTION: 1704
A. CONCRETE CONSTRUCTION 1704.4
C. MASONRY - CBC CHAPTER 21
1. GENERAL: 2101
2. MASONRY CONSTRUCTION MATERIALS: 2103
3. CONSTRUCTION: 2104
4. SPECIAL INSPECTION: 1704
A. MASONRY CONSTRUCTION 1704.5
D. STEEL - CBC CHAPTER 22
1. GENERAL: 2201
2. ID & PROTECTION OF STEEL: 2203
3. CONNECTIONS: 2204
4. STRUCTURAL STEEL: 2205
5. SPECIAL INSPECTION: 1704
A. STEEL CONSTRUCTION 1704.3

ADDITIONAL NOTES

NOTICE TO THE APPLICANT/OWNER/OWNER'S AGENT/ARCHITECT OR ENGINEER OF RECORD:

BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUB-CONTRACTOR:

BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

STATEMENT OF SPECIAL INSPECTIONS

SPECIAL INSPECTION AS SPECIFIED IN CHAPTER 17 OF THE 2010 CBC

Table with 4 columns: SPECIAL INSPECTION TASK, FREQ. OF INSPECTION, REFERENCED STANDARD, CBC REFERENCE. Includes tasks like CONCRETE CONSTRUCTION, SOILS, and STEEL.

Table with 5 columns: SPECIAL INSPECTION TASK, FREQ. OF INSPECTION, CBC, REFERENCED STANDARDS (ACI 530/ASCE5/TMS 402, ACI 530.1/ASCE6/TMS 602). Includes tasks like MASONRY CONSTRUCTION and WELDING.

WELDING

- 1. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
2. ALL WELDING OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE, AWS D1.1, LATEST EDITION.
3. WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN UNLESS NOTED OTHERWISE.
4. SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING WORK AS SPECIFIED BY SECTION 1704.3.1 OF THE CBC, CURRENT EDITION.

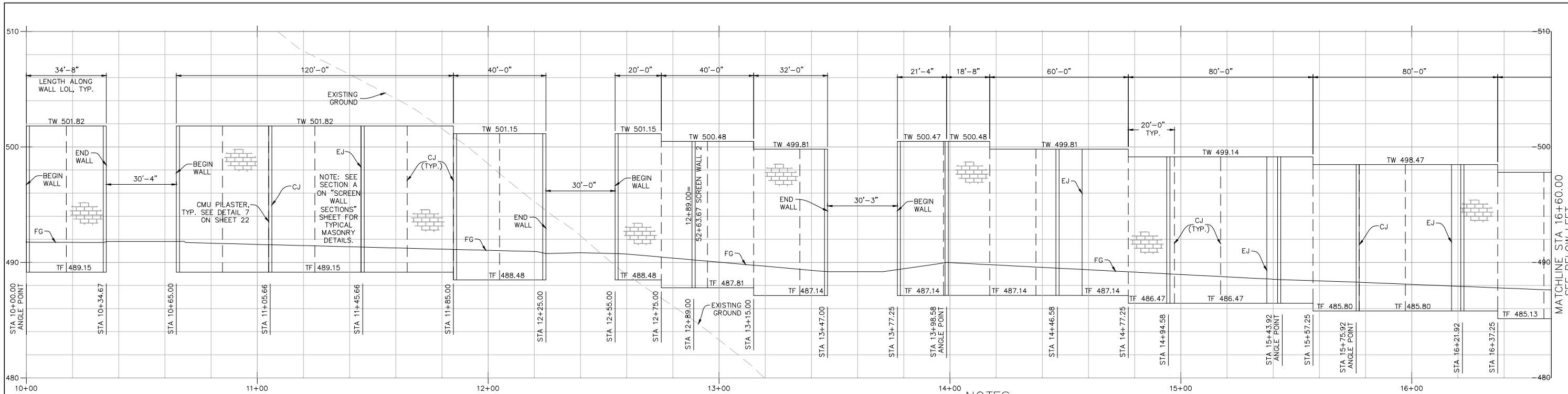
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Table with 2 columns: AS BUILT, UTILITY NOTE. Includes fields for SIGNATURE, Date, P.E. No., and My Registration Expires.

Table with 10 columns: CONSTRUCTION RECORD, REFERENCES, BY, REVISIONS, Date, App'd, BENCH MARK, SCALE, Designed By, Drawn By, Checked By, Submitted, Approved, CITY OF CHULA VISTA, ENGINEERING DEPARTMENT, Drawing No. Includes project name SDG&E SALT CREEK SUBSTATION and drawing number XXXXX-19.



PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX

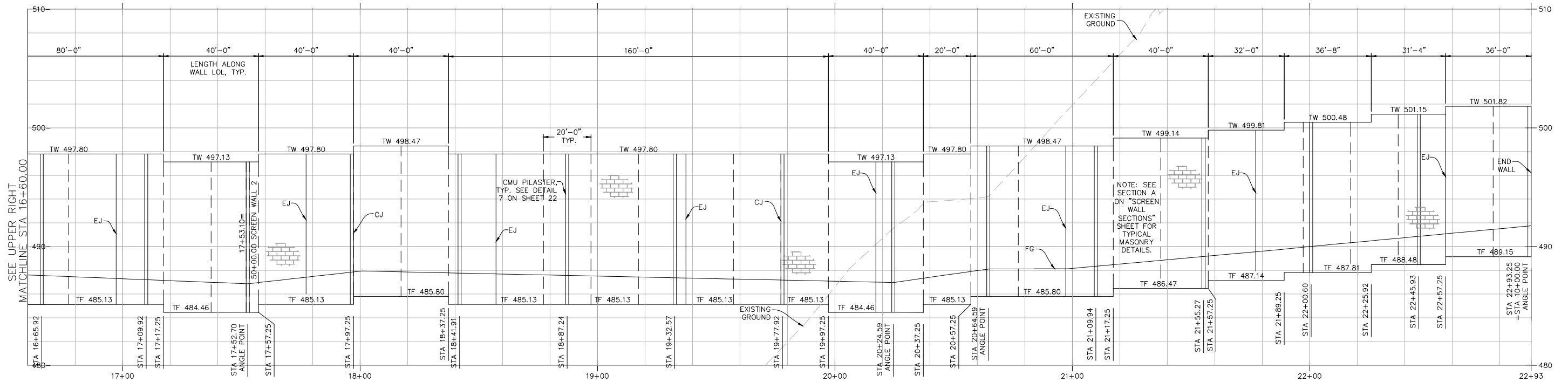


SCREEN WALL 1 PROFILE

SCALE: 1"=20' (H)
1"=4' (V)

NOTES

- THIS SHEET IS NOT A GRADING PLAN. SEE GRADING PLAN SHEETS 9-13 FOR SITE GRADING ELEVATIONS AND DIMENSIONS.
- FOR TYPICAL WALL SECTIONS, SEE "SCREEN WALL SECTIONS" SHEET 22.
- FOR HORIZONTAL CONTROL OF WALL, SEE "HORIZONTAL CONTROL PLAN" SHEET 18.
- HORIZONTAL AND VERTICAL DIMENSIONS SHOWN ARE THE EXTERIOR OF SUBSTATION WALLS.
- MASONRY EXPANSION JOINTS SHALL BE SPACED AS SHOWN AND NO GREATER THAN 96'-0" ON CENTER. SEE "DETAIL 6" ON "SCREEN WALL PROFILE & DETAILS" SHEET. CONTROL JOINTS SHALL BE SPACED EQUALLY BETWEEN EXPANSION JOINTS AT 24" MAX SPACING PER "DETAIL 5" ON THE SAME SHEET.
- ABBREVIATIONS:
RW LOL = RETAINING WALL LAYOUT LINE
EG = EXISTING GROUND
FG = FINISH GROUND
TW = TOP OF WALL
TF = TOP OF FOOTING



SCREEN WALL 1 PROFILE

SCALE: 1"=20' (H)
1"=4' (V)

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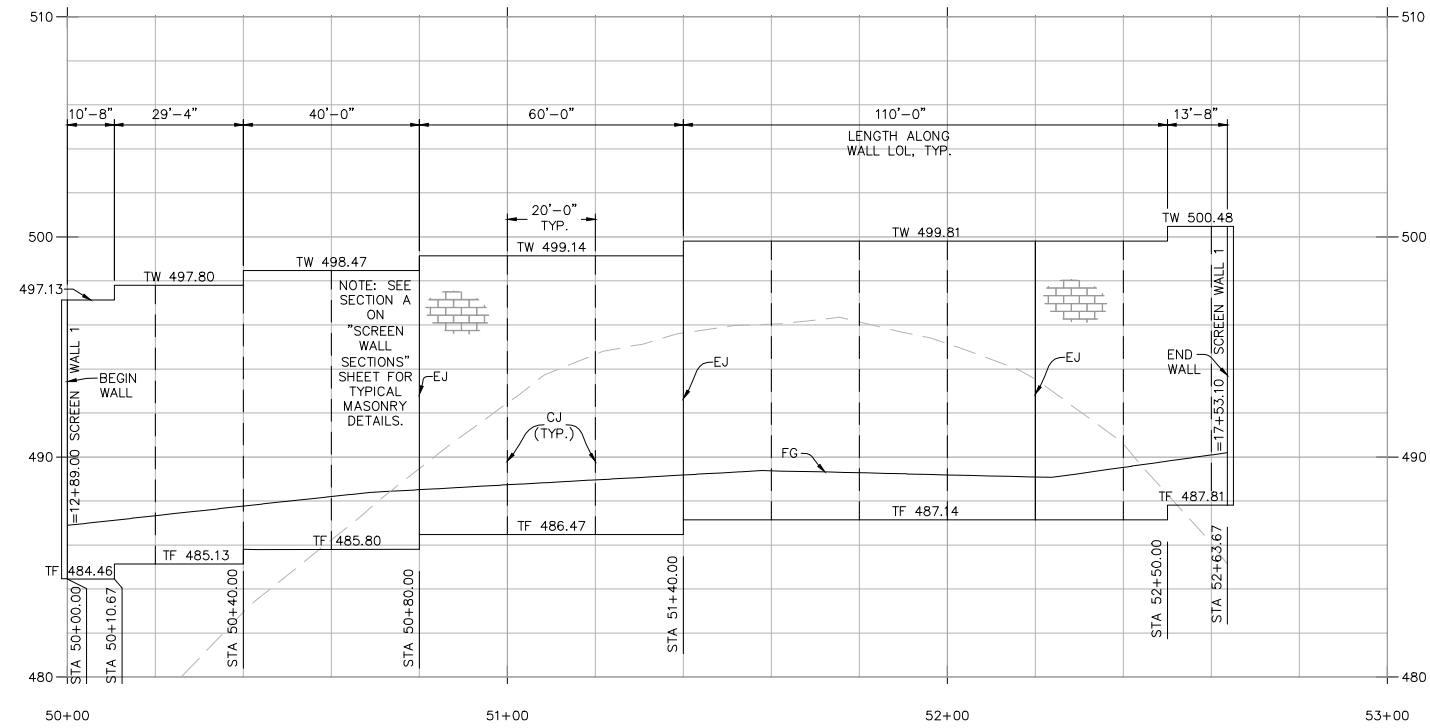
AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		



CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Plans Prepared Under Supervision Of				By _____	Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION SCREEN WALL PROFILE		XXXXX-20
Inspector _____								DEVAN E. DAGLEY								W.O. No. XX-XXXX
Date Completed _____								R.C.E. No. 78462								O.W.D. NO. XXXX



PRELIMINARY NOT FOR CONSTRUCTION



SCREEN WALL 2 PROFILE

SCALE: 1"=20' (H)
1"=4' (V)



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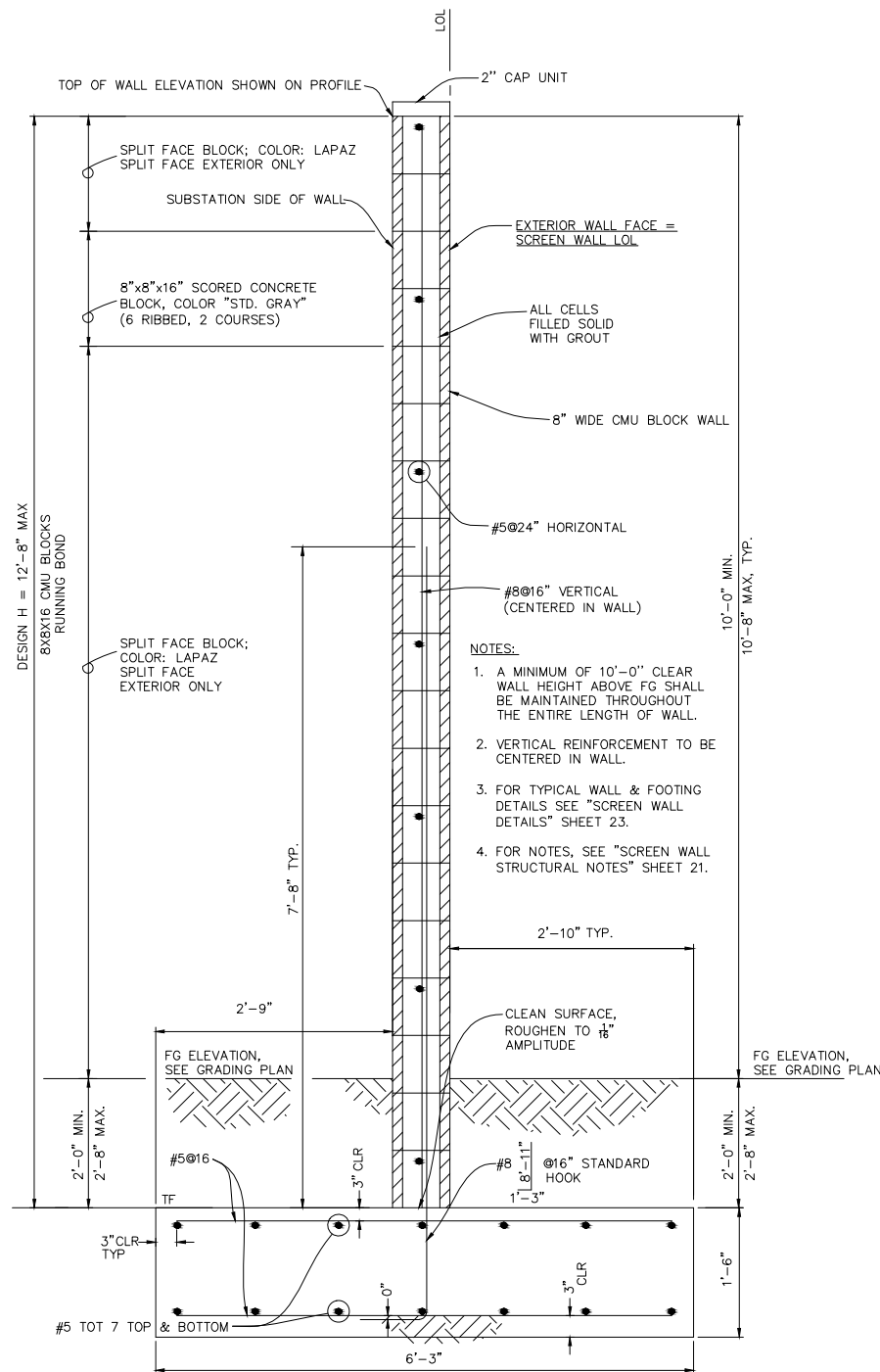
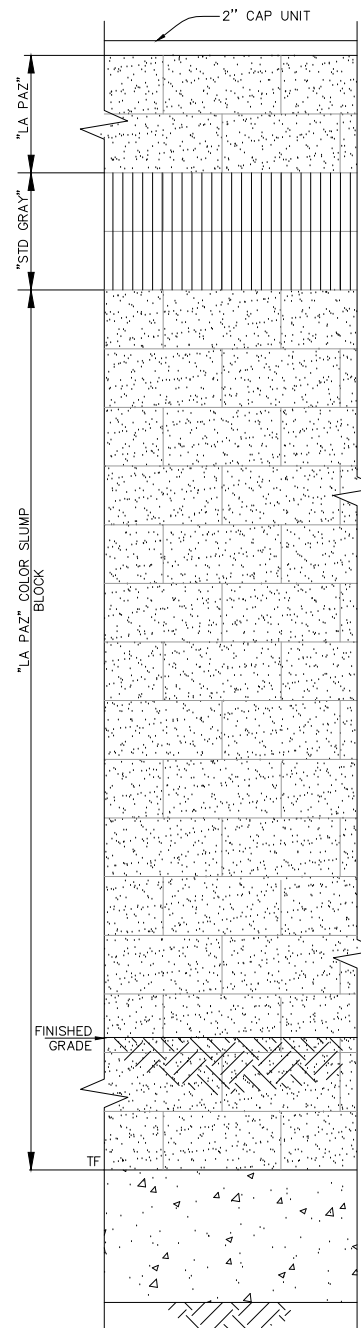
AS BUILT	UTILITY NOTE
SIGNATURE _____ Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
Printed Name _____ P.E. No. _____	
My Registration Expires _____ Discipline _____	

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD88 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Plans Prepared Under Supervision Of				By _____	By _____ Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION		XXXXX-21
Inspector _____								DEVAN E. DAGLEY		R.C.E. No. 78462	Office					W.O. No. XX-XXXX
Date Completed _____																PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX



CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD88 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Plans Prepared Under Supervision Of				By _____	By _____ Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION		XXXXX-21
Inspector _____								DEVAN E. DAGLEY		R.C.E. No. 78462	Office					W.O. No. XX-XXXX
Date Completed _____																PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX

PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX



MASONRY SCREEN WALL SECTION
 1" = 1'-0" (STA 10+00.00 TO STA 22+64.94) A



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AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD88 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Plans Prepared Under Supervision Of DEVAN E. DAGLEY	Date _____	78462		By _____ Deputy Director of Engineer		SDG&E SALT CREEK SUBSTATION SCREEN WALL SECTIONS		XXXXX-22 W.O. No. XX-XXXX

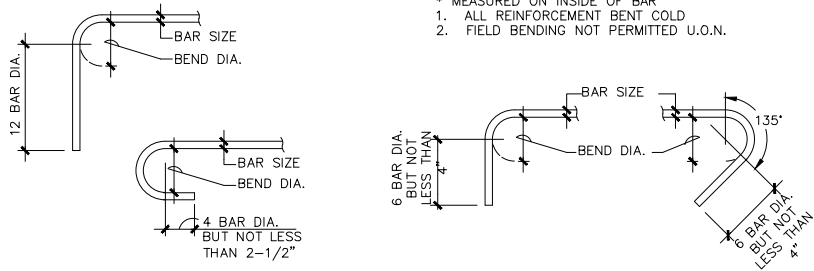
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PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX

BAR BEND	BAR SIZE	MIN. BEND DIA. *
ALL GRADES OF REINFORCEMENT	#3 THRU #8	6 BAR DIA.
	#9, #10 & #11	8 BAR DIA.
	#14 & #18	10 BAR DIA.

BAR SIZE	MIN. BEND DIA. *
#3 THRU #5	4 BAR DIA.
ALL OTHER BARS	SEE TABLE 1

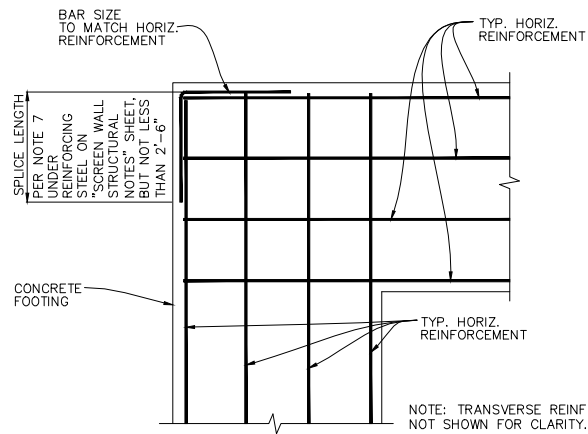
NOTES:
 * MEASURED ON INSIDE OF BAR
 1. ALL REINFORCEMENT BENT COLD
 2. FIELD BENDING NOT PERMITTED U.O.N.



REINFORCEMENT HOOKS

SCALE: N.T.S.

1

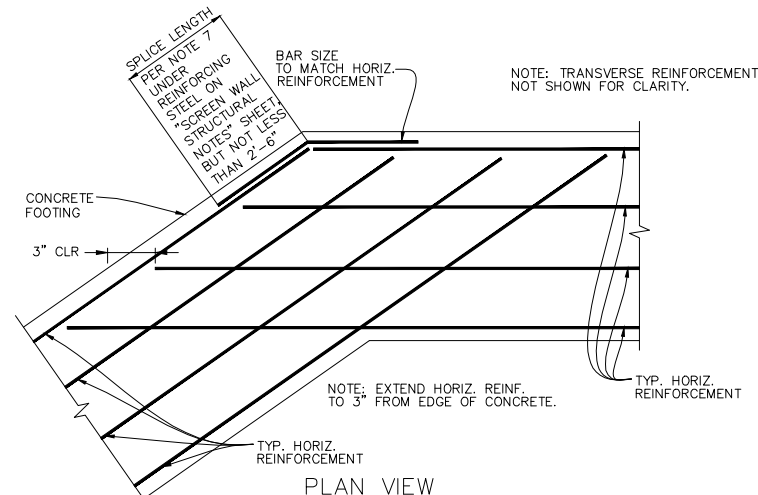


PLAN VIEW

90° CONCRETE FOOTING CORNER

SCALE: 1/2"=1'-0"

2

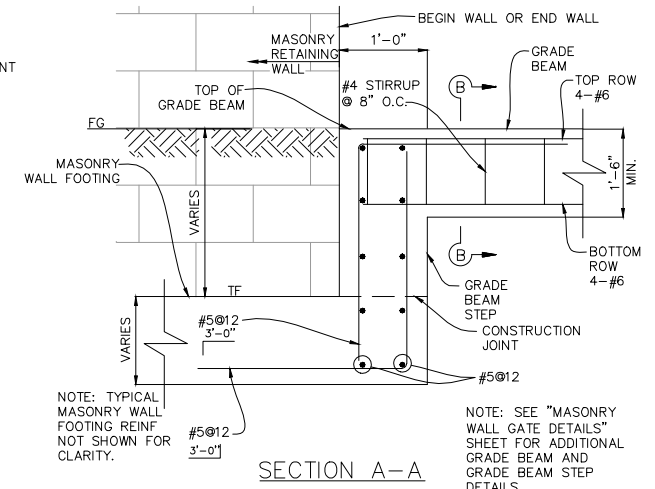


PLAN VIEW

ANGLED CONCRETE FOOTING CORNER

SCALE: 1/2"=1'-0"

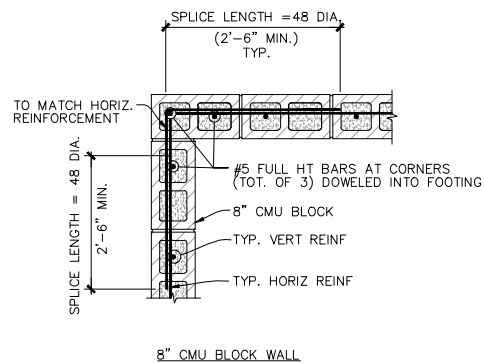
3



SECTION A-A

NOTE: TYPICAL MASONRY WALL FOOTING REINF. NOT SHOWN FOR CLARITY.

NOTE: SEE "MASONRY WALL GATE DETAILS" SHEET FOR ADDITIONAL GRADE BEAM AND GRADE BEAM STEP DETAILS.

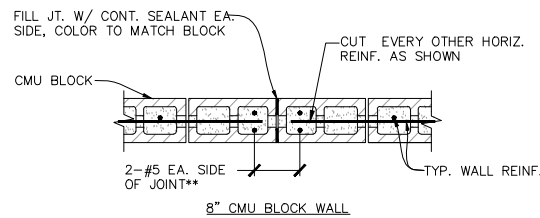


8" CMU BLOCK WALL

CMU WALL CORNER

SCALE: N.T.S.

4



8" CMU BLOCK WALL

NOTES:

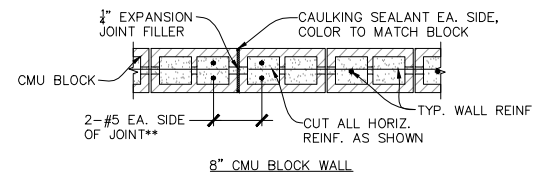
1. MAXIMUM CONTROL JOINT SPACING SHALL BE 24' UNLESS OTHERWISE NOTED.
2. DO NOT PLACE CONTROL JOINTS LESS THAN 2'-0" FROM A WALL OPENING OR INTERSECTION OF A PERPENDICULAR WALL.
3. CONTROL JOINTS SHALL BE EQUALLY SPACED IN BETWEEN EXPANSION JOINTS, UNLESS OTHERWISE NOTED.

**WHERE TYP. VERTICAL WALL REINF. EXISTS, #5 BAR MAY BE OMITTED

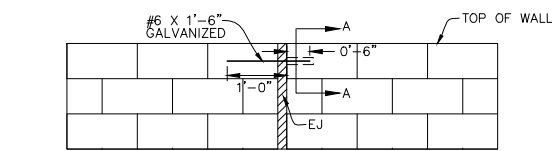
TYPICAL MASONRY CONTROL JOINT

SCALE: N.T.S.

5



8" CMU BLOCK WALL



ELEVATION

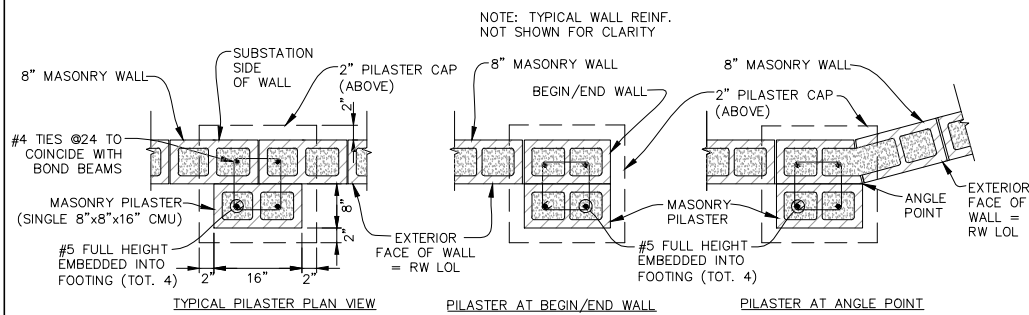
SECTION A-A

- NOTES:
1. MAXIMUM EXPANSION JOINT SPACING SHALL BE 96' UNLESS OTHERWISE NOTED.
 2. DO NOT PLACE EXPANSION JOINTS LESS THAN 2'-0" FROM A WALL OPENING OR INTERSECTION OF A PERPENDICULAR WALL.
 3. TOP COURSE OF WALL MUST HAVE A FULL SIZE BLOCK ON EITHER SIDE OF EXPANSION JOINT

TYPICAL MASONRY EXPANSION JOINT

SCALE: N.T.S.

6



TYPICAL PILASTER PLAN VIEW

PILASTER AT BEGIN/END WALL

PILASTER AT ANGLE POINT

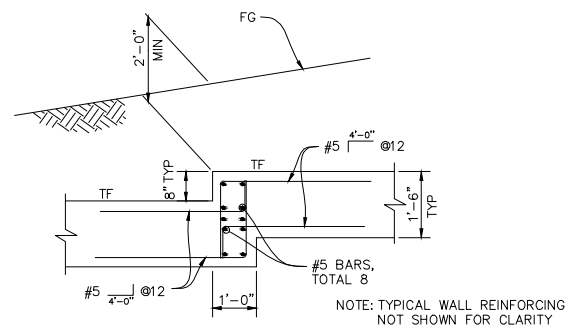
NOTES:

- 1) PILASTERS SHALL BE FULLY GROUTED.
- 2) PILASTERS SHALL BE SPACED AT 48'-0" MAXIMUM ALONG WALLS EXCEPT AS SHOWN ON WALL PROFILES.

PILASTER DETAIL

SCALE: N.T.S.

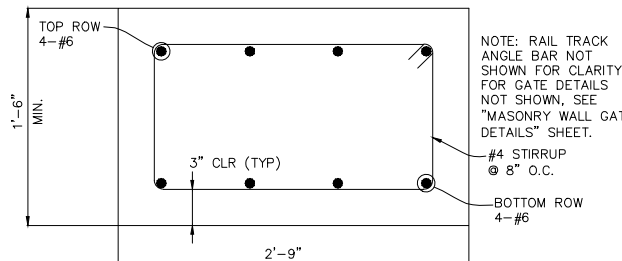
7



TYPICAL FOOTING STEP DETAIL

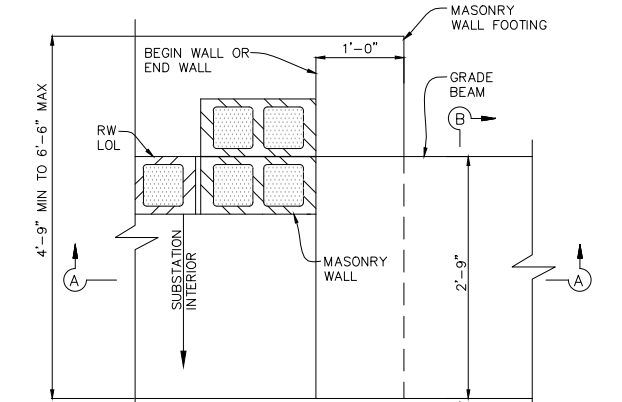
1/2" = 1'-0"

9



SECTION B-B

NOTE: RAIL TRACK ANGLE BAR NOT SHOWN FOR CLARITY. FOR GATE DETAILS NOT SHOWN, SEE "MASONRY WALL GATE DETAILS" SHEET.



PLAN VIEW

TYPICAL MASONRY GATE GRADE BEAM

SCALE: 1" = 1'-0"

8

N:\SDG&E\9007\CADD\CIVIL\23 SC-5-905.5

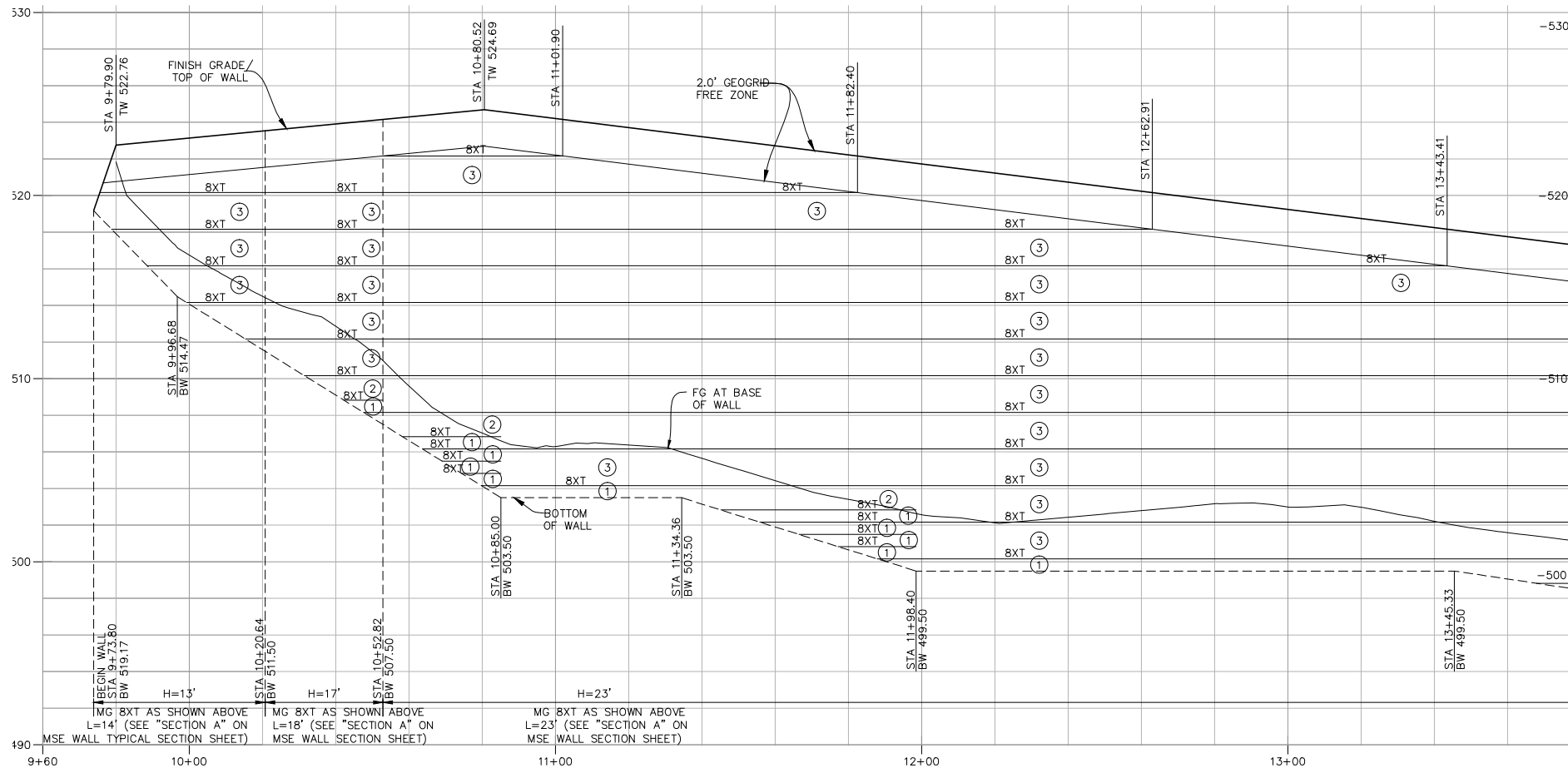
AS BUILT	UTILITY NOTE
Signature _____ Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
Printed Name _____ P.E. No. _____	
My Registration Expires _____ Discipline _____	

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN	Planned Under Supervision Of				By _____	By _____	SDG&E SALT CREEK SUBSTATION		XXXXX-23
Inspector _____							Vertical AS SHOWN	Date	DEVAN E. DAGLEY	78462	Office	Deputy Director of Engineer	SCREEN WALL DETAILS		W.O. No. XX-XXXX	
Date Completed _____																

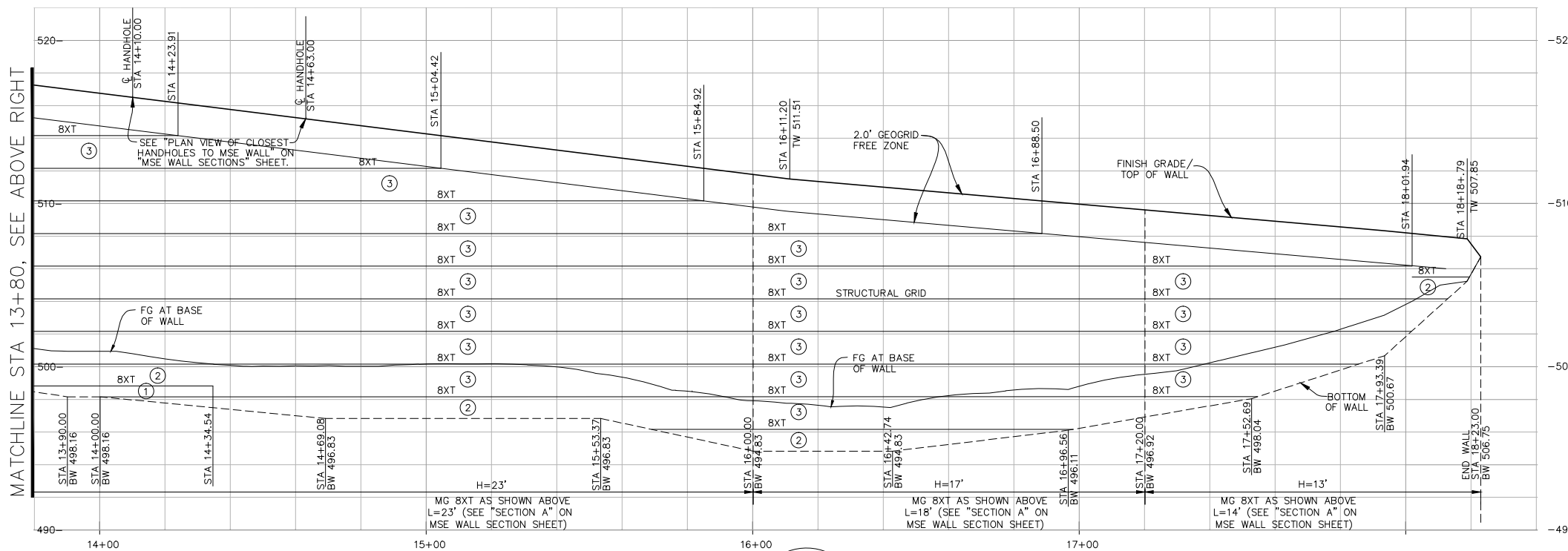


Submitted _____	Approved _____	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.
By _____	By _____	GRADING PLANS FOR:		XXXXX-23
Office _____	Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION		W.O. No. XX-XXXX
		SCREEN WALL DETAILS		

PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX



MATCHLINE STA 13+80, SEE BELOW LEFT



MATCHLINE STA 13+80, SEE ABOVE RIGHT



MSE WALL PROFILE

SCALE: 1"=20' (H)
1"=4' (V)

AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd
Contractor _____					
Inspector _____					
Date Completed _____					

BENCH MARK	SCALE
DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN

Designed By	Drawn By	Checked By
Plans Prepared Under Supervision Of	Date	Office
CHRISTOPHER J. KRIER	R.C.E. No. 71833	

Submitted	Approved
By _____	By _____
Office	Deputy Director of Engineer

CITY OF CHULA VISTA		ENGINEERING DEPARTMENT
GRADING PLANS FOR:		
SDG&E SALT CREEK SUBSTATION		
MSE WALL PROFILE		

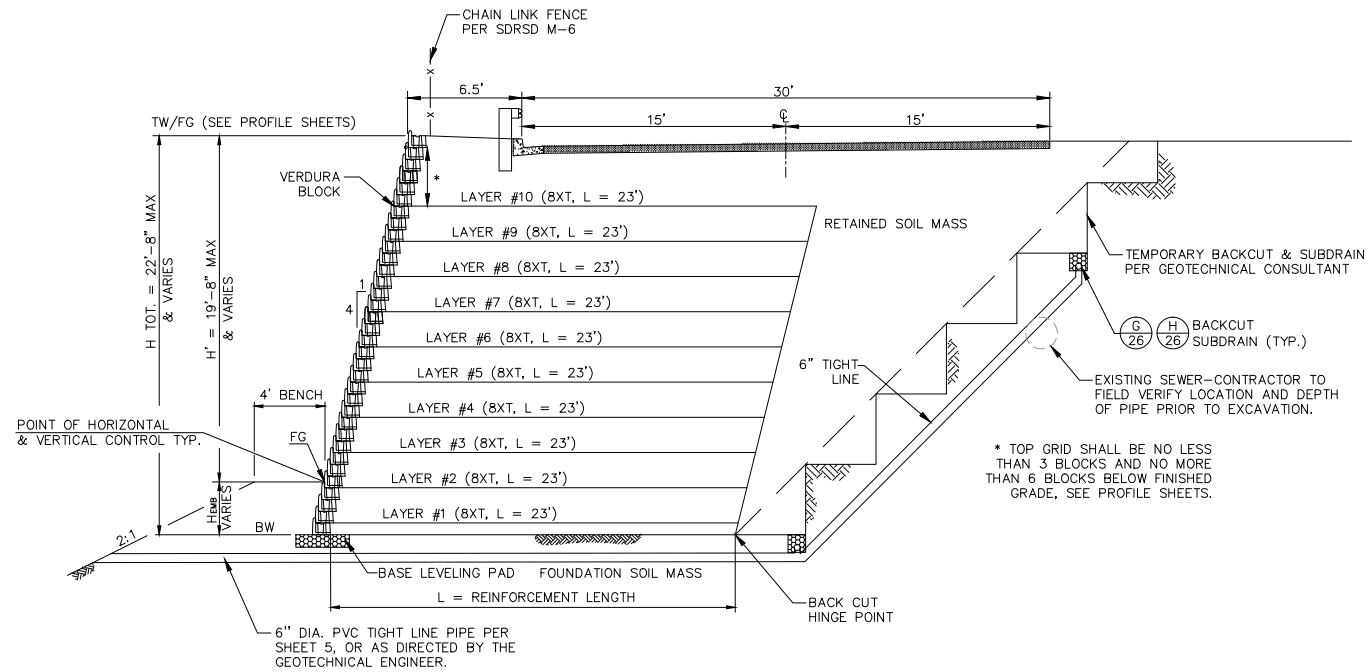
Drawing No.	XXXXX-24
W.O. No. XX-XXXX	



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LEGEND

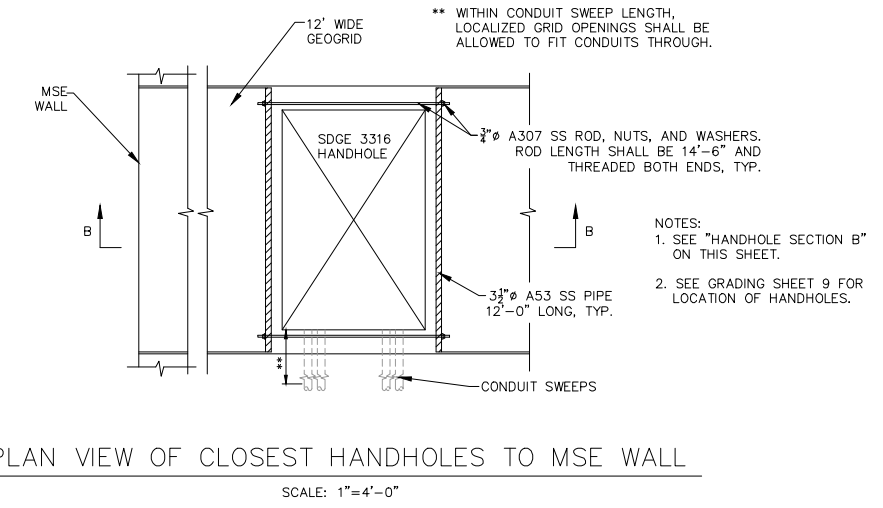
- MSE MECHANICALLY STABILIZED EARTH
- TW TOP OF MSE STRUCTURE
- BW BOTTOM OF MSE STRUCTURE
- FG FINISH GRADE
- MG MIRAGRID GEOSYNTHETIC REINFORCING
- L GEOGRID LENGTH
- H OVERALL WALL DESIGN HEIGHT
- H' EXPOSED WALL DESIGN HEIGHT
- H_{em} WALL DESIGN EMBEDMENT HEIGHT
- #XT DENOTES TYPE OF MIRAGRID REINFORCING REQUIRED



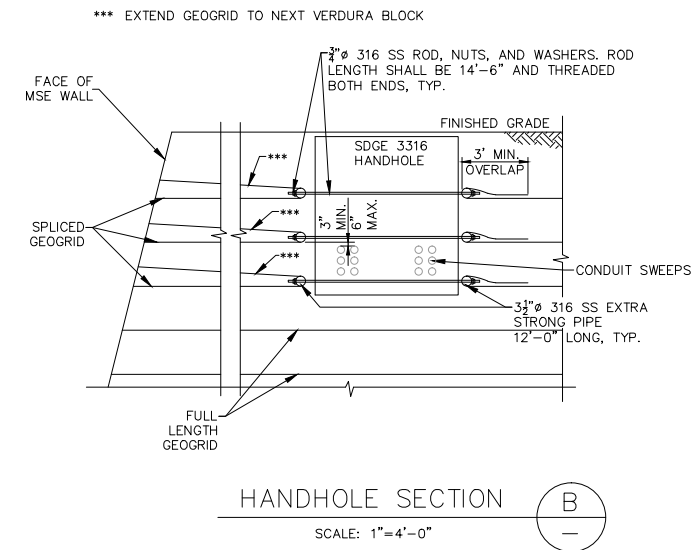
VERDURA WALL MAXIMUM TYPICAL DESIGN SECTION (A)
SCALE: 1"=5'-0"

NOTES

1. GEOGRID LENGTHS ARE MEASURED FROM THE BACK OF BLOCK.
2. FOR ALL DRAINAGE DETAILS SEE SHEETS X & X.
3. GEOGRID WILL NOT BE PLACED CLOSER THAN THREE COURSES FROM THE TOP OF WALL AND NO FURTHER THAN SIX COURSES.



PLAN VIEW OF CLOSEST HANDHOLES TO MSE WALL
SCALE: 1"=4'-0"



HANDHOLE SECTION (B)
SCALE: 1"=4'-0"

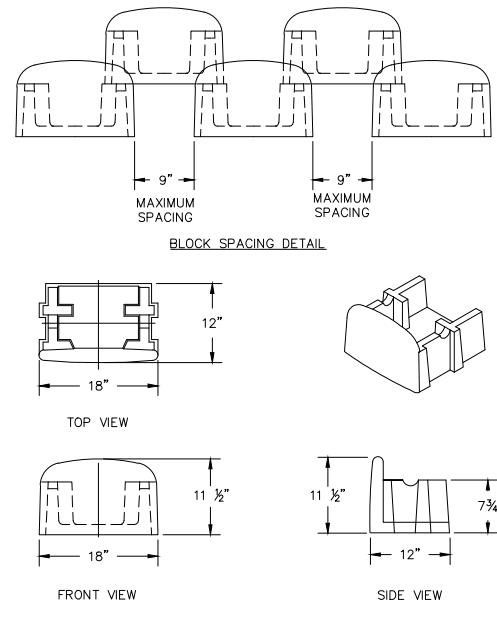


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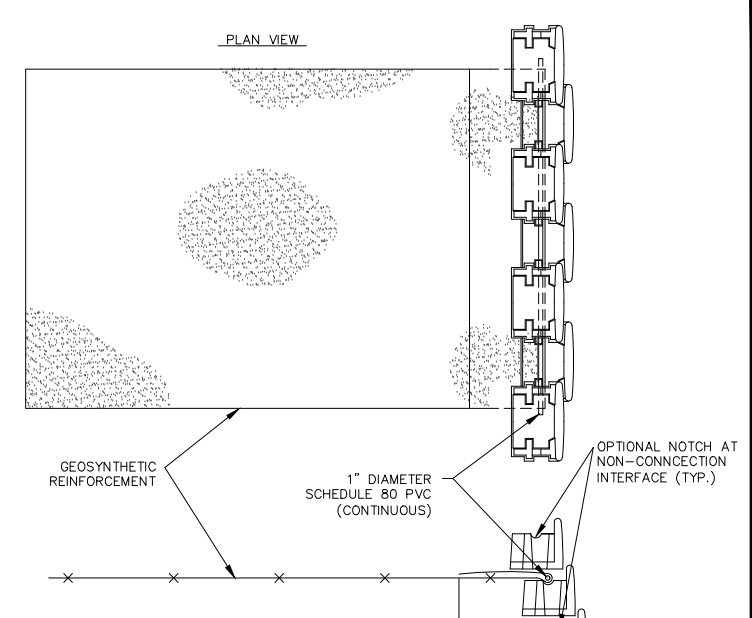
AS BUILT	UTILITY NOTE
Date _____ Signature _____ P.E. No. _____ Printed Name _____ My Registration Expires _____ Discipline _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Planned Under Supervision Of				By _____ Deputy Director of Engineer		GRADING PLANS FOR: SDG&E SALT CREEK SUBSTATION MSE WALL SECTIONS		XXXXX-25 W.O. No. XX-XXXX
Inspector _____								CHRISTOPHER J. KRIER								
Date Completed _____																

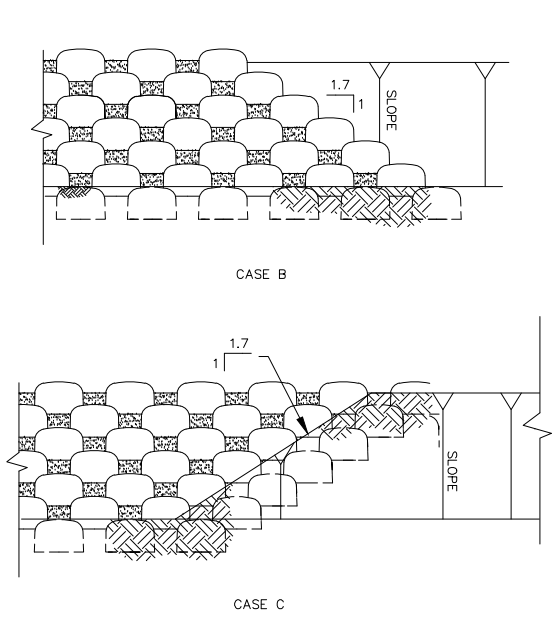




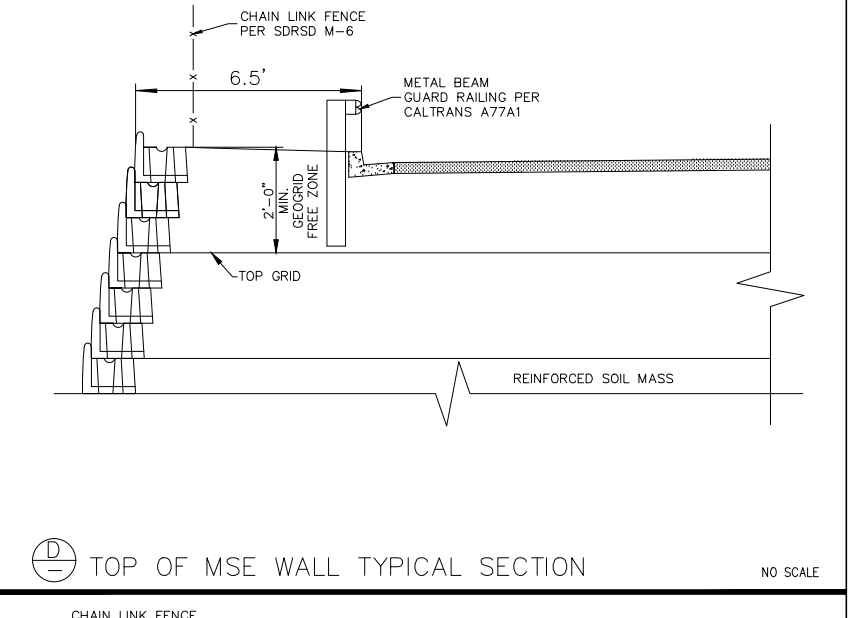
(A) VERDURA 40 BLOCK AND SPACING DETAIL NO SCALE



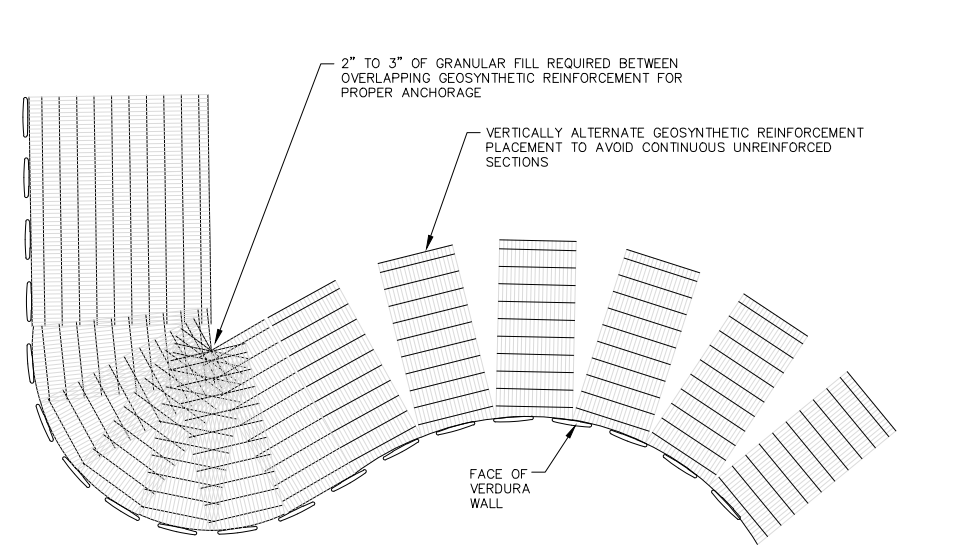
(B) GEOGRID CONNECTION DETAIL NO SCALE



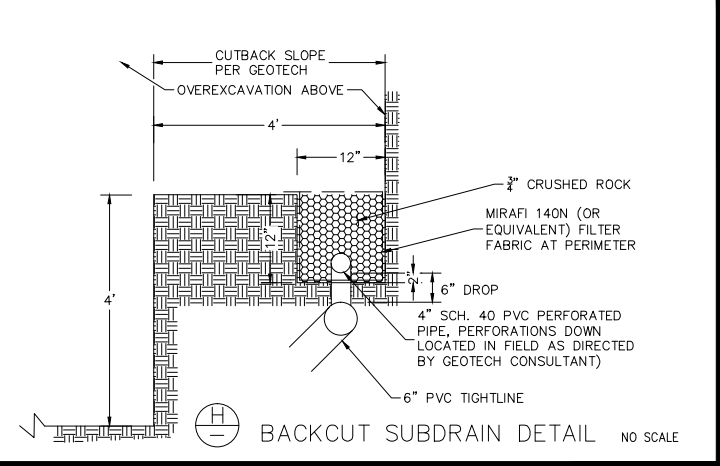
(C) END OF WALL TRANSITION DETAIL NO SCALE



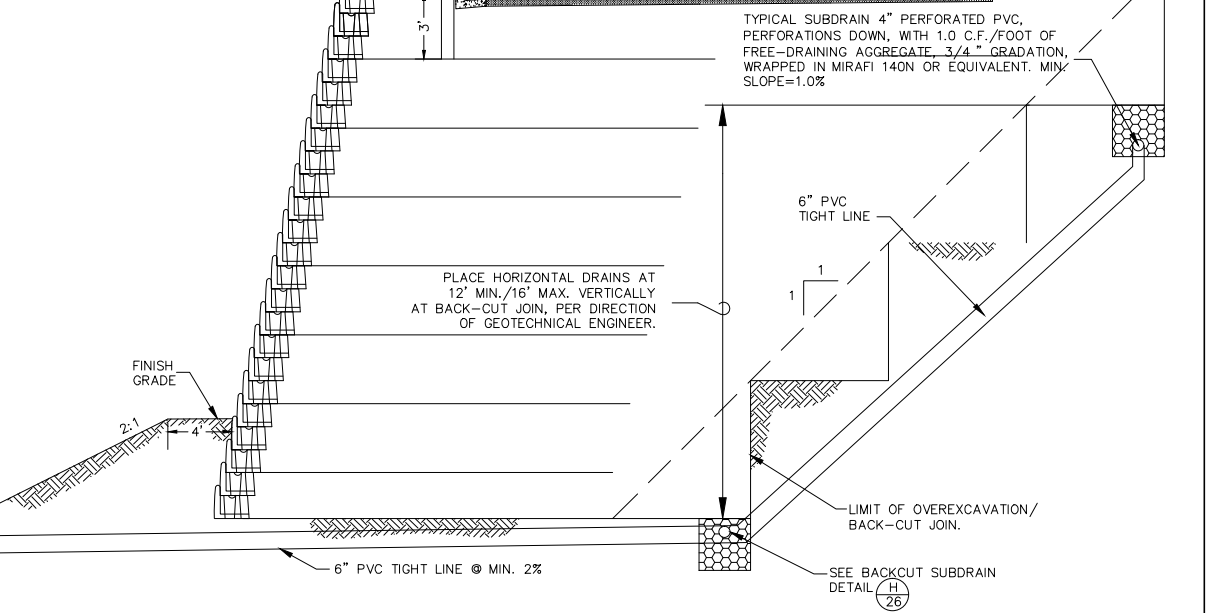
(D) TOP OF MSE WALL TYPICAL SECTION NO SCALE



(E) GEOGRID PLACEMENT ON CURVES DETAIL NO SCALE



(H) BACKCUT SUBDRAIN DETAIL NO SCALE



(G) OVEREXCAVATION SUBDRAIN DETAIL NO SCALE

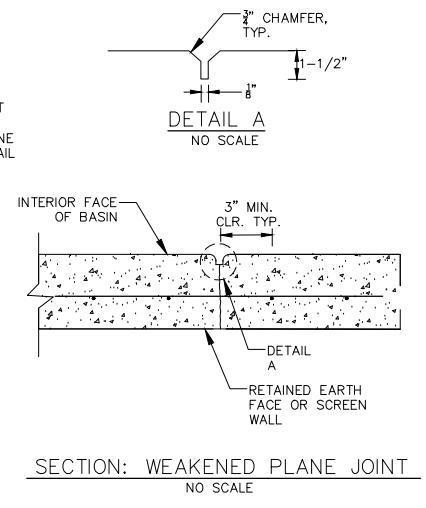
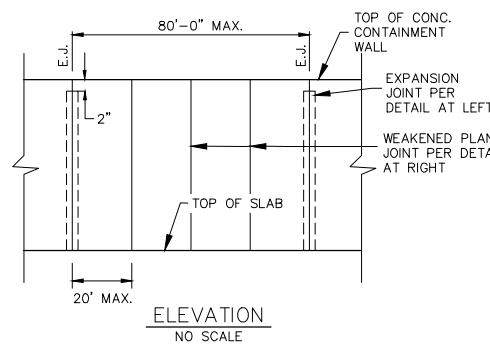
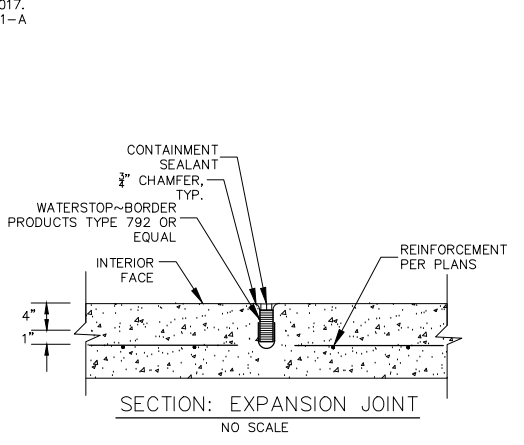
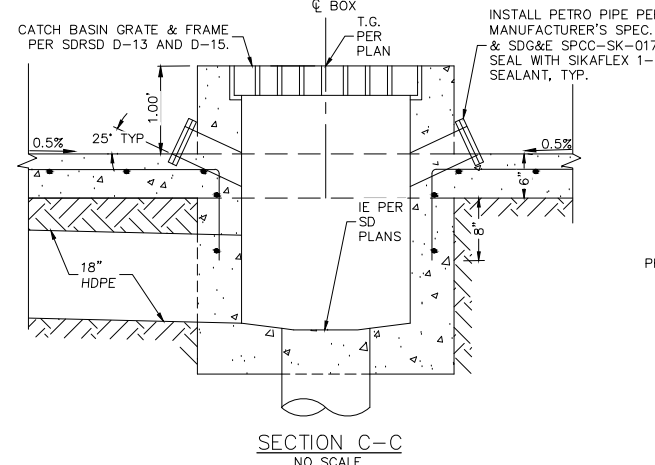
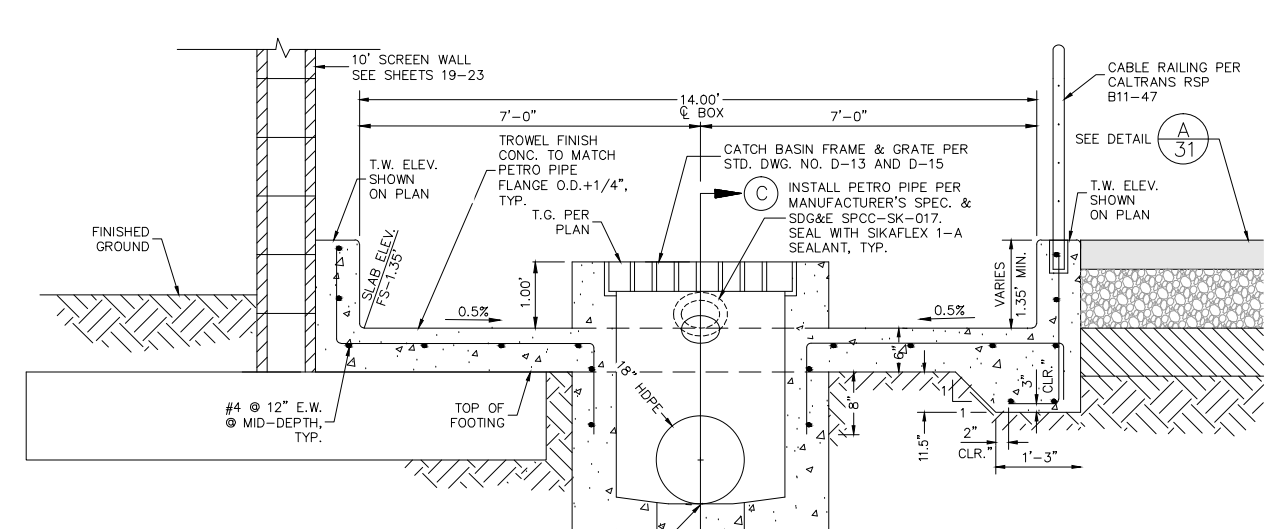
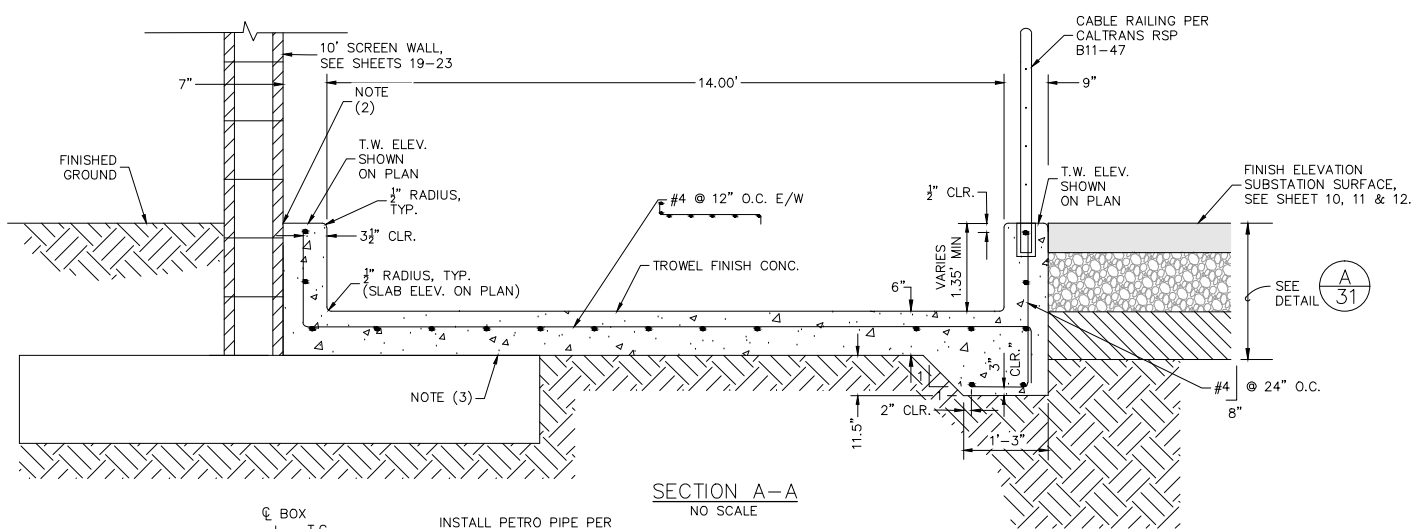
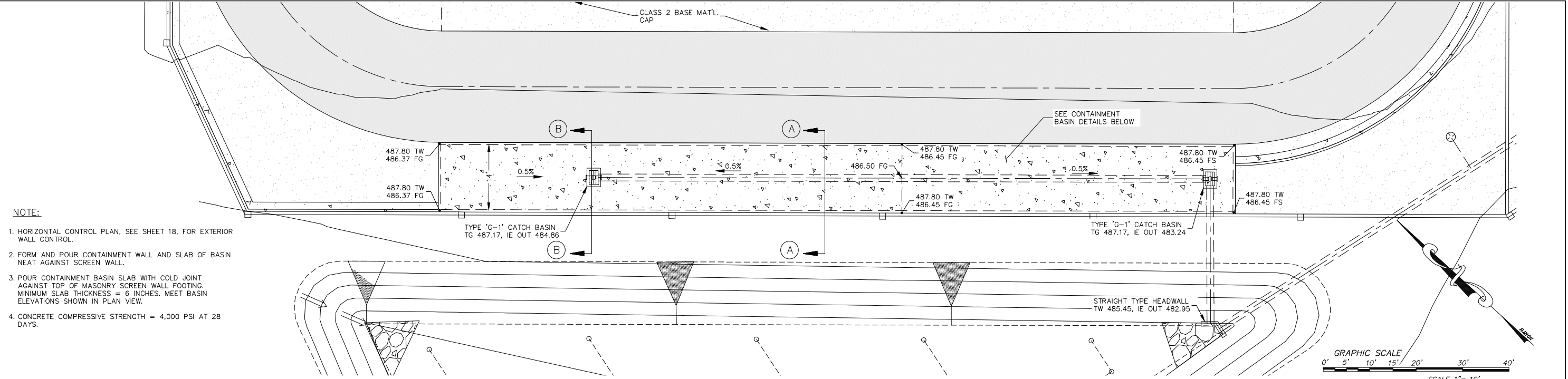
- NOTES:**
- OVER-EXCAVATION DRAINS TO BE INSTALLED AT AREAS OF CUT INTO EXISTING SOILS BEHIND MSE WALLS, AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER IN THE FIELD.
 - PERFORATED PIPE SHOULD OUTLET THROUGH A TIGHT LINE TO A FREE GRAVITY OUTFALL. PERFORATED PIPE AND OUTLET PIPE SHOULD HAVE AT LEAST A FALL OF 2%.
 - FILTER FABRIC SHOULD CONSIST OF MIRAFI 140N, OR EQUAL APPROVED PRODUCT. FILTER FABRIC SHOULD BE OVERLAPPED PER MANUFACTURER INSTRUCTIONS.
 - DRAIN INSTALLATION SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO BACKFILLING.



AS BUILT	UTILITY NOTE
Signature _____ Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
Printed Name _____ P.E. No. _____	
My Registration Expires _____ Discipline _____	

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN	Plans Prepared Under Supervision Of				By _____	By _____	GRADING PLANS FOR:		XXXXX-26
Inspector _____							Vertical AS SHOWN	CHRISTOPHER J. KRIER	R.C.E. No. 71833		Office	Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION		W.O. No. XX-XXXX	
Date Completed _____													MSE WALL DETAILS		O.W.D. NO. XXXX	

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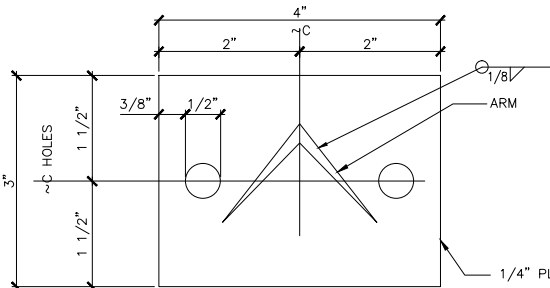


AS BUILT		UTILITY NOTE	
Signature	Date	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name	P.E. No.		
My Registration Expires	Discipline		

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Planned Under Supervision Of				By	By	SDG&E SALT CREEK SUBSTATION GLOBAL OIL CONTAINMENT BASIN		XXXXX-28
Inspector								SCOTT R. VINTON		R.C.E. No. 54703	Office	Deputy Director of Engineer			W.O. No. XX-XXXX	
Date Completed															PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX	

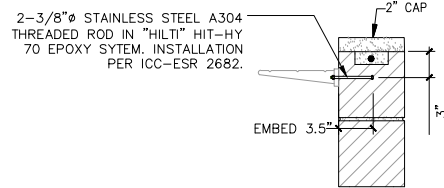


- NOTES:
- 1- BEAM SHALL HAVE 3 DRAIN HOLES EACH, EQUALLY SPACED.
 - DRAIN HOLES SHALL NOT EXCEED 3/8" IN DIAMETER, AND SHALL BE DRILLED PRIOR TO GALVANIZING.
 - SEE CONTRACTOR'S GATE SUBMITTAL FOR MAN GATE DETAIL.
 - GATE NOT SHOWN IN PLAN VIEW AND ELEVATION VIEW FOR CLARITY.
 - STORM DRAIN NOT SHOWN IN ELEVATION VIEW FOR CLARITY.
 - GALVANIZE REPAIRS WITH BRUSH ON COLD GALVANIZING COMPOUND CONTAINING 90% OR GREATER ZINC. ACCEPTABLE PRODUCTS INCLUDE:
(1) ZRC GALVALITE GALVANIZING REPAIR COMPOUND
(2) ZRC COLD GALVANIZING COMPOUND
(3) AERVOE/CROWN ZINCH RICH GALVANIZE COATING 7007.



TYPICAL BARBED WIRE BRACKET DIMENSION

SCALE: N.T.S.

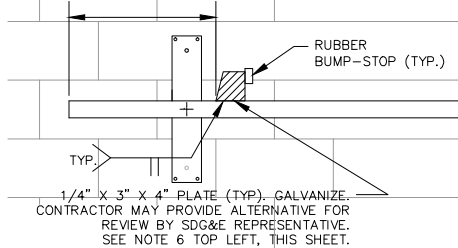


TYPICAL BARBED WIRE BRACKET CONNECTION DETAIL

SCALE: N.T.S.

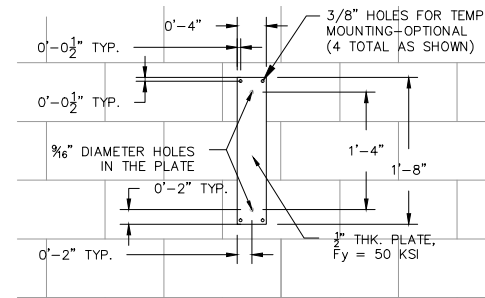


CONTRACTOR TO FIELD ADJUST LOCATION OF THE PLATE SO THE GATE STOPS AT END OF WALL



GATE STOP PLATE DETAIL

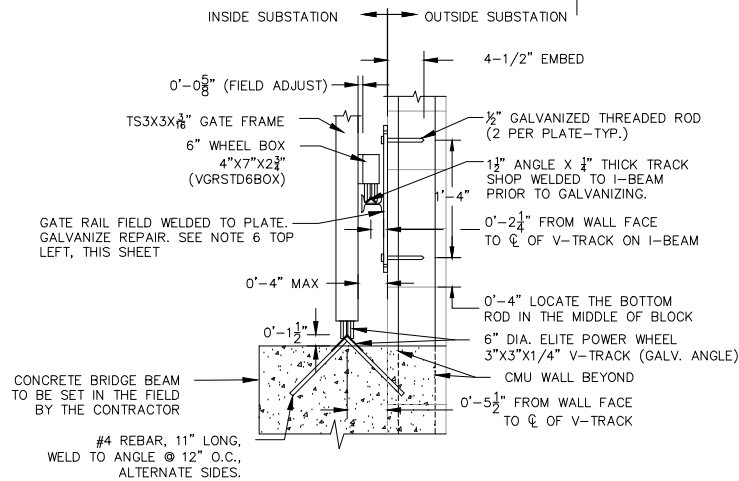
SCALE: 1"=1'-0"



4"X20"HX0.5"T PLATE WITH 1/2" DIA. "HILTI HAS" THREADED RODS AND "HILTI HIT-HY 70" ADHESIVE ANCHORING SYSTEM PER ICC-ESR 2682; DRILL 9/16" DIA. HOLE IN BLOCK AND MORTAR.

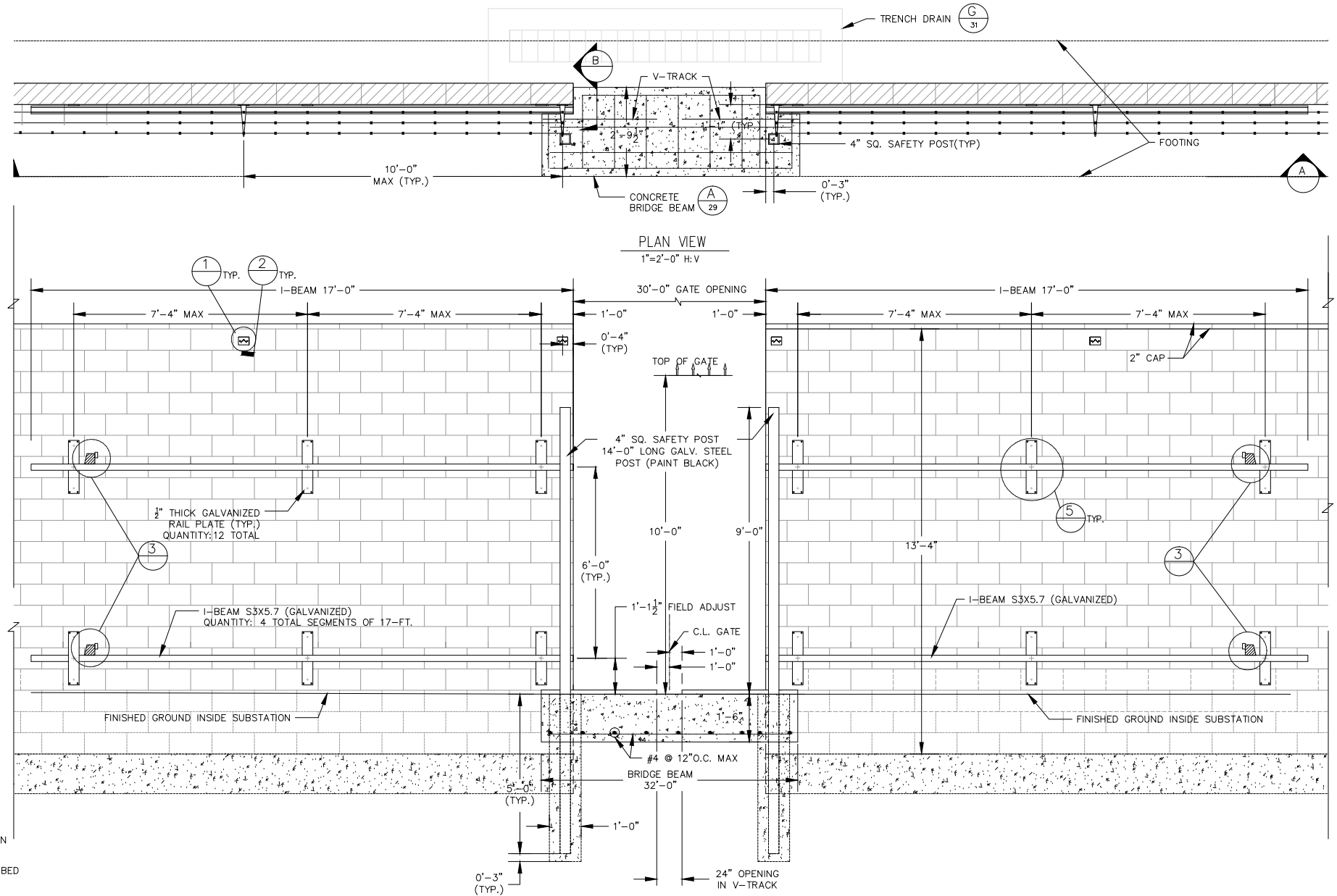
POST GROUT INSTALLATION

SCALE: 1"=1'-0" NOTE: I-BEAM NOT SHOWN



POST GROUT INSTALLATION GATE ROLLER AND RAIL INSTALLATION LAYOUT

SCALE: 1"=1'-0"



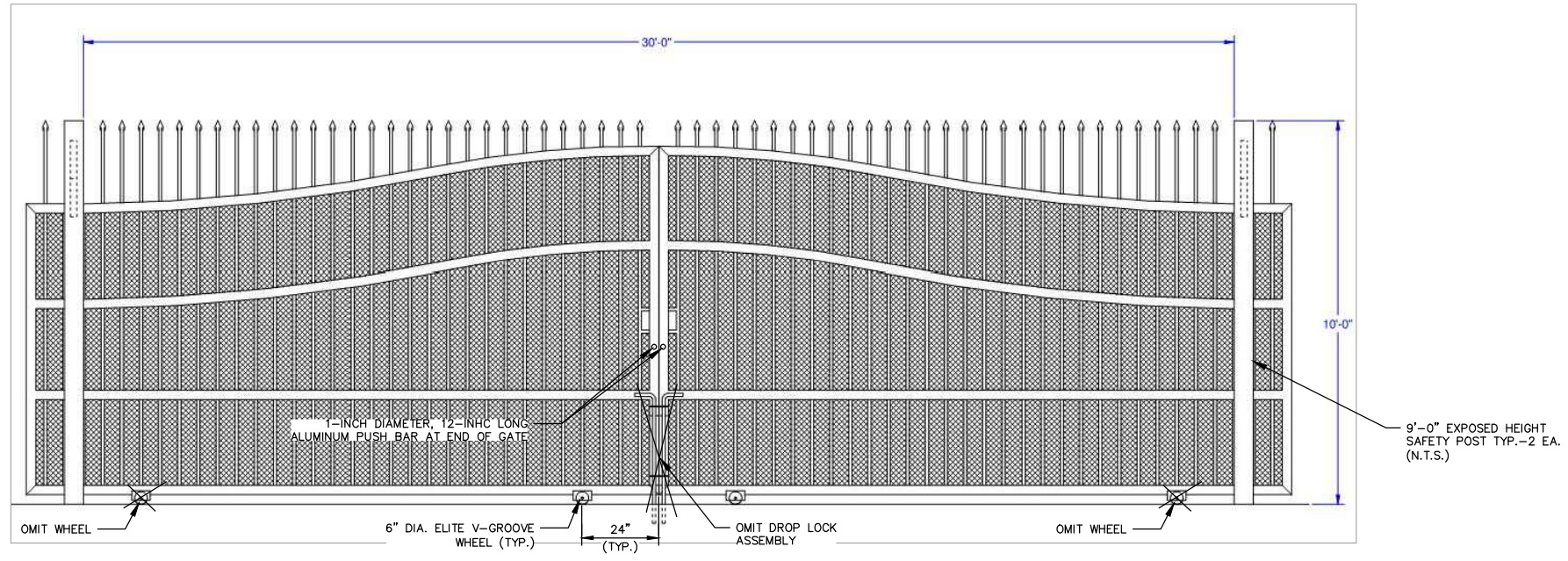
GATE RAIL, PLATE LAYOUT, AND SAFETY POST INSIDE SUBSTATION

SCALE: 1"=2'-0" H:V



AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD88 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Plans Prepared Under Supervision Of				By _____	Deputy Director of Engineer	SDG&E SALT CREEK SUBSTATION SLIDING GATE DETAILS		XXXXX-29
Inspector _____								SCOTT R. VINTON			Office				W.O. No. XXXX	
Date Completed _____																



SUBSTATION ALUMINUM SLIDING GATE
N.T.S.

SEE SHEET 29 FOR SLIDING GATE ATTACHMENT DETAILS, RAIL AND PLATE LAYOUT.

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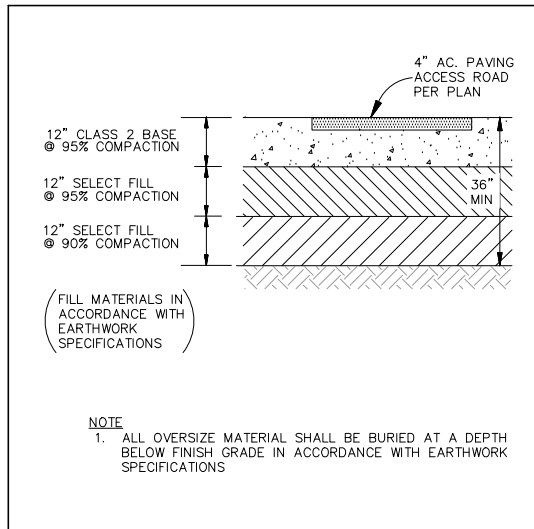
AS BUILT	UTILITY NOTE
SIGNATURE _____ Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
Printed Name _____ P.E. No. _____	
My Registration Expires _____ Discipline _____	



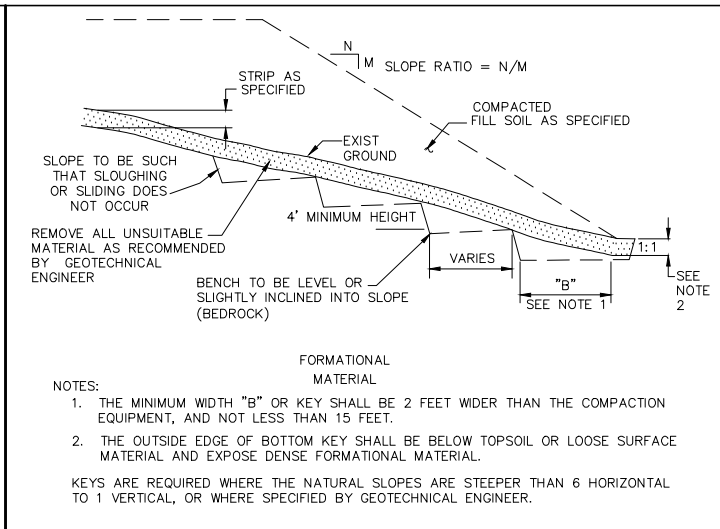
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Designed By	Drawn By	Checked By	Submitted	Approved	CITY OF CHULA VISTA	ENGINEERING DEPARTMENT	Drawing No.	
Contractor _____						DESCRIPTION: ELEVATIONS SHOWN ARE ON THE NAVD88 DATUM, DETERMINED LOCALLY BY POINT CV GPS5095 AS SHOWN ON THE PUBLISHED CITY OF CHULA VISTA GEODETIC CONTROL NETWORK RECORD OF SURVEY No. 14841. SAID ELEVATION OF 557.522 FEET.	Horizontal AS SHOWN Vertical AS SHOWN	Plans Prepared Under Supervision Of				By _____ Deputy Director of Engineer	By _____	GRADING PLANS FOR: SDG&E SALT CREEK SUBSTATION GATE DETAILS		XXXXX-30
Inspector _____								SCOTT R. VINTON		R.C.E. No. 54703	Office					W.O. No. XX-XXXX
Date Completed _____																



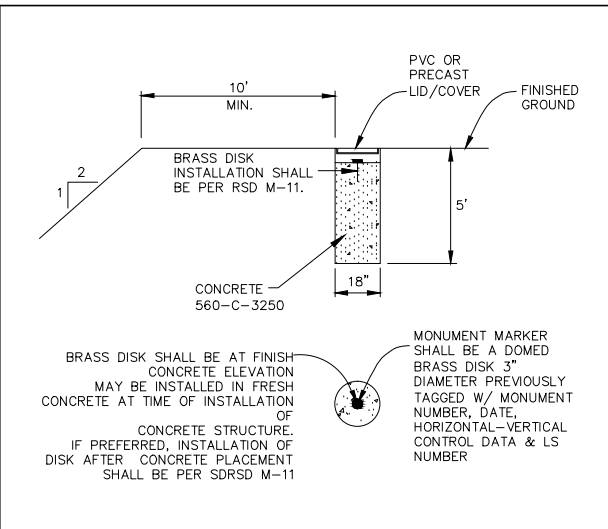
PRELIMINARY NOT FOR CONSTRUCTION O.W.D. NO. XXXX



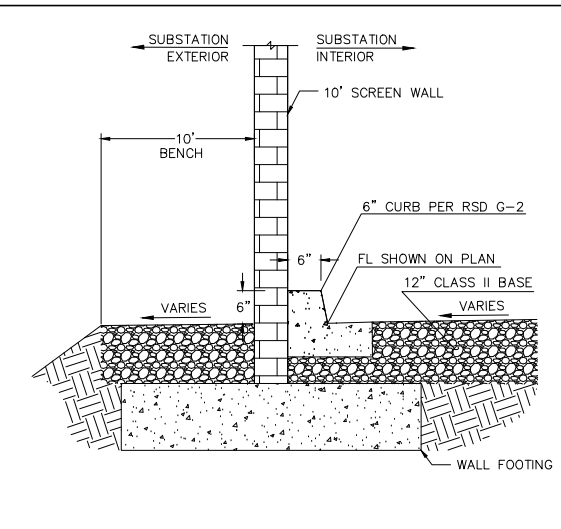
(A) TYPICAL SUBSTATION SECTION
NO SCALE



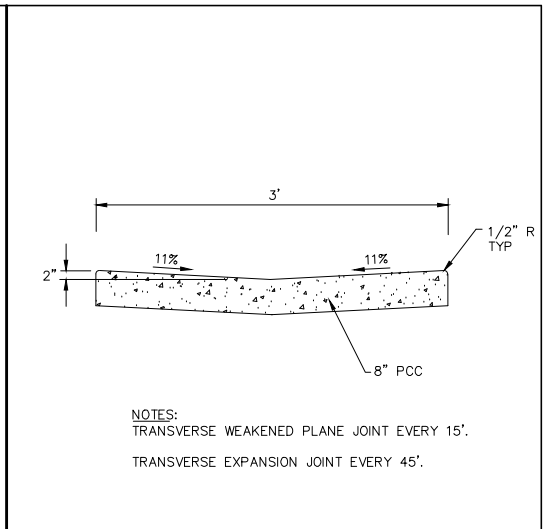
(B) BENCHING DETAIL
NO SCALE



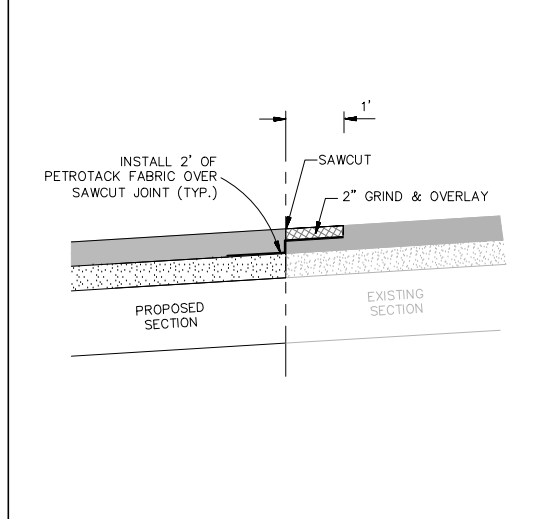
(C) SETTLEMENT MONUMENT
NO SCALE



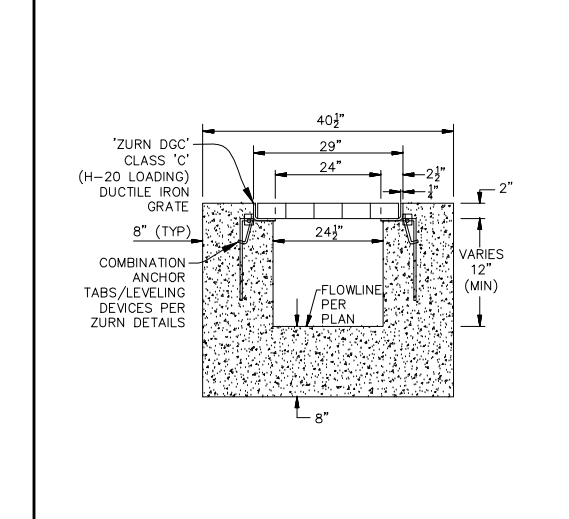
(D) CURB & GUTTER ALONG WALL
NO SCALE



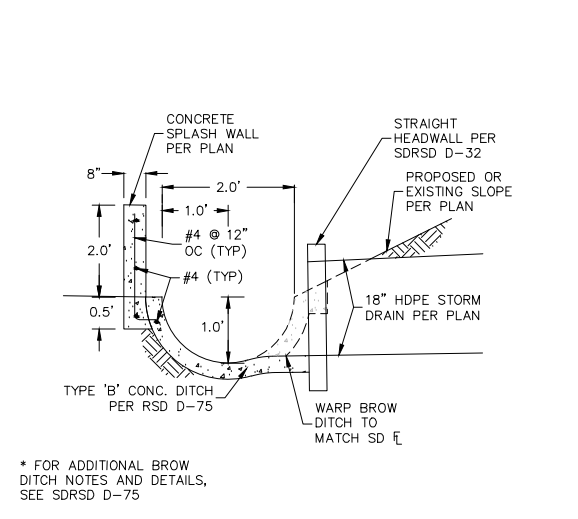
(E) RIBBON GUTTER
NO SCALE



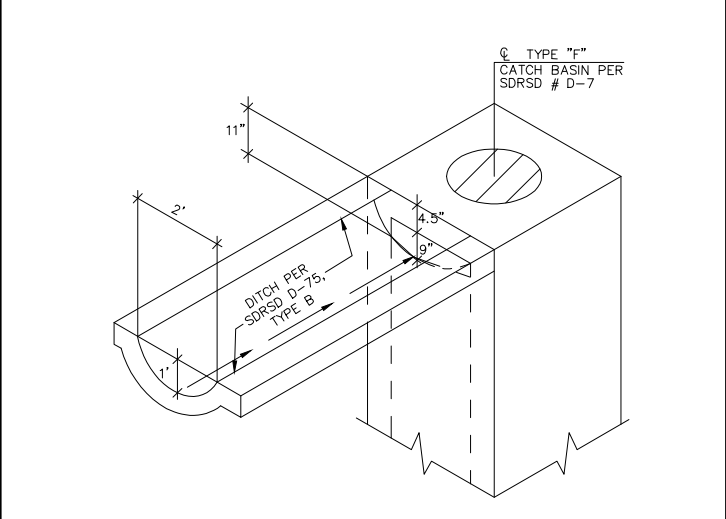
(F) SAWCUT DETAIL
NO SCALE



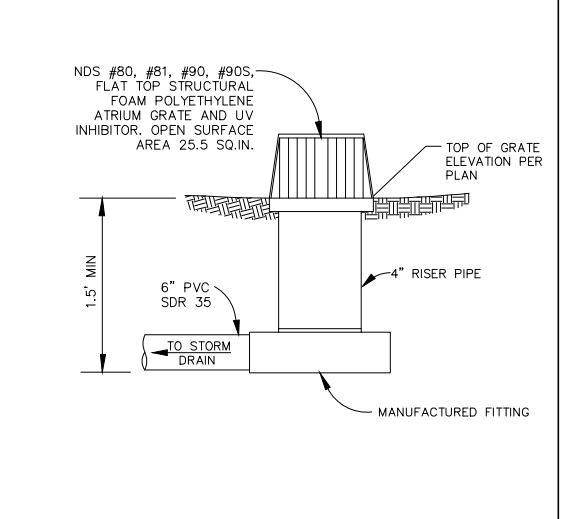
(G) TRENCH DRAIN
NO SCALE



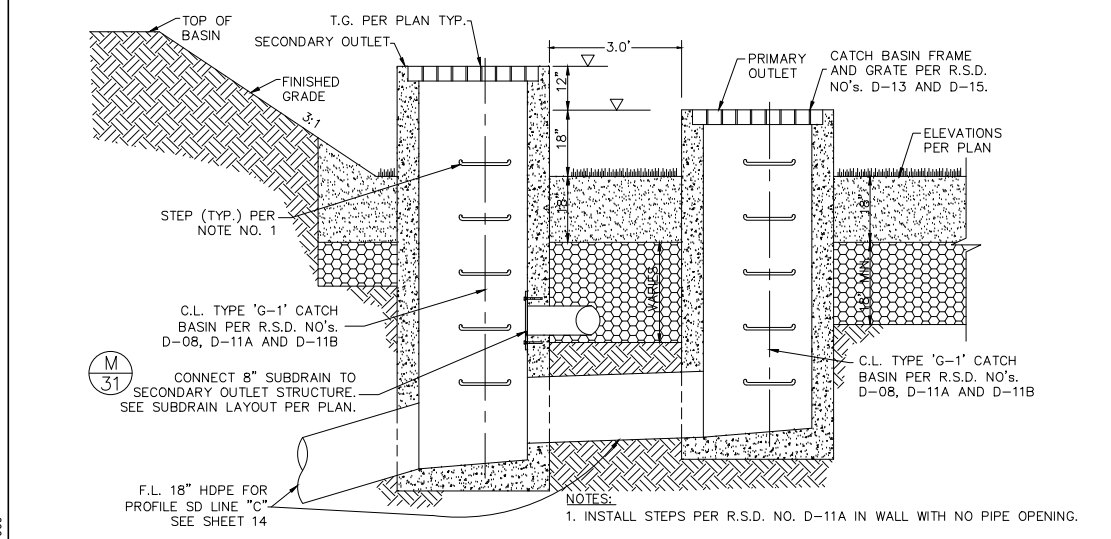
(H) SPLASH WALL AT DITCH
NO SCALE



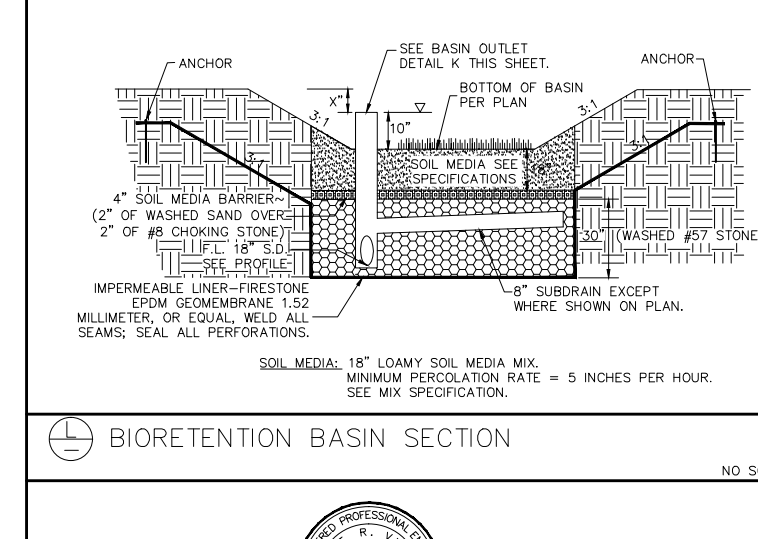
(I) DRAINAGE DITCH TO TYPE F CB
NO SCALE



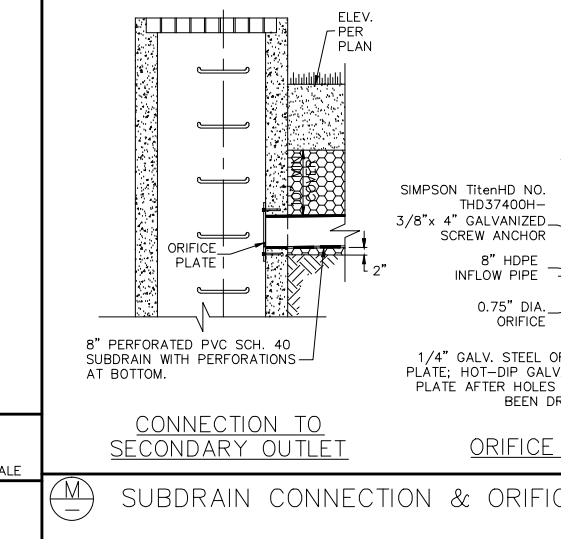
(J) ATRIUM DRAIN DETAIL
NO SCALE



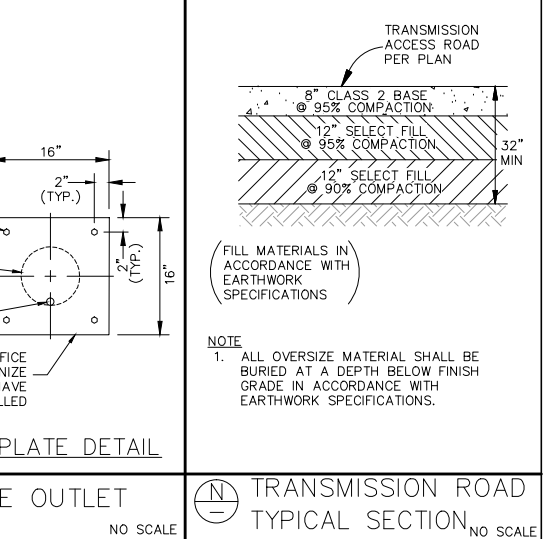
(K) PRIMARY & SECONDARY BIORETENTION OUTLETS
NO SCALE



(L) BIORETENTION BASIN SECTION
NO SCALE



(M) SUBDRAIN CONNECTION & ORIFICE OUTLET
NO SCALE



(N) TRANSMISSION ROAD TYPICAL SECTION
NO SCALE

AS BUILT	
Signature	Date
Printed Name	P.E. No.
My Registration Expires	Discipline

UTILITY NOTE	
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	

CONSTRUCTION RECORD	
Contractor	Inspector
Date Completed	

REFERENCES	
By	Revisions
Date	App'd

BENCH MARK	
Description	Elevations
AS SHOWN	
Vertical	
AS SHOWN	

SCALE	
Horizontal	AS SHOWN
Vertical	AS SHOWN

